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PATENT OFFICE JOURNAL

1974

(Containing matters relating to (1) Applications for patents made
during the period from January 1, 1971 to April 19, 1972,
(2) Designs registered during the period 1972 and
(3) Special proceedings in respect of Patents
and Designs during 1973)

GOVERNMENT OF INDIA
THE PATENT OFFICE

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NOTE :—*The Patent Office does not guarantee the accuracy of its publications or undertake any responsibility for errors or ommission or their consequences.*

INTRODUCTORY NOTE

This issue of the Patent Office Journal, 1974 includes lists and indexes in respect of the accepted applications for patents filed during the period from January, 1, 1971 to April 19, 1972, designs registered during 1972, special proceedings in respect of patents and designs during 1973 and patents in force on the 31st December, 1974. Information regarding the application for patents filed upto the 19th April, 1972 only is given as the Patents Act, 1970 (Act No. 39 of 1970) came into force on the 20th April, 1972; it would be convenient to deal with the applications for patents filed in the Patent Office from the 20th April, 1972 in a new issue in view of the substantial changes incorporated in the Patents Act, 1970 and Patents Rules, 1972 necessitating a new arrangement in the compilation of the future issues of the Patent Office Journal. This issue forms a continuation of the Consolidated Lists of Patents, 1900—1911 and 1912—1920 and the various issues of the Patent Office Journal published in respect of the years 1921 to 1960 and 1961—1973, (Volumes I to IV). Pending next issue of the Journal, the Weekly Notifications of the Patent Office published in the Gazette of India, Part III, Section 2 may be consulted for information regarding applications for patents and complete specification accepted since the 20th April, 1972, and other proceedings under the Patents Act, 1970 and the Designs Act, 1911 from the year 1974 onwards upto date.

S. VEDARAMAN
CONTROLLER-GENERAL OF PATENTS,
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PATENT OFFICE ;
June 10, 1976.

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1. **Patent Office and Branch Offices.**—Address and communications.—(a) The Patents Act, 1970 which has been brought into force with effect from the 20th April, 1972 repealing the provisions relating to Patents contained in the Indian Patents and Designs Act, 1911 is administered by the Controller-General of Patents, Designs and Trade Marks through the Patent Office and the Patent Office branches. All communications intended for the Patent Office and the Patent Office branches should be addressed to the Controller of Patents and sent to the appropriate offices of the Patent Office having territorial limits within which each office functions as specified below:—

Branch Office of the Patent Office at Todi Estates, (3rd Floor), Lower Parel, (West), Bombay-400013.	The States of Gujarat, Madhya Pradesh and Maharashtra and the Union territories of Goa, Daman and Diu and Dadra and Nagar Haveli.
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(b) The Indian Patents and Designs Act, 1911 amended in the manner laid down in the Schedule to the Patents Act, 1970 has been redesignated as the Designs Act, 1911 which is also administered by the Controller-General of Patents, Designs and Trade Marks but only through the Patent Office, Calcutta. All communications relating to the operation of the Designs Act, 1911 and matters connected therewith should be addressed to the Controller-General of Patents, Designs and Trade Marks and sent to the Patent Office, Calcutta.

2. **Office hours.**—The Patent Office and the Patent Office Branches are open to public on all working days during the usual office hours. On Sundays and Government holidays the Offices remain closed to the public.

3. **Inspection Centres.**—The printed specifications of inventions and other publications of the Patent Office have been deposited for the information of the public FREE OF CHARGE at the following places:—

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Jorhat	The Principal, H.R.H. , The Prince of Wales Technical School, Jorhat, Assam.
Shillong	The Deputy Director, (Commercial Intelligence), Directorate of Industries (Assam), Shillong, Assam

BIHAR

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Dhanbad	The Director, Central Fuel Research Institute, F.R.I. Post, Dist. Dhanbad, Bihar.
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Patna	The Director of Industries, Patna, Bihar.
Ranchi	The Joint General Manager, Heavy Machine Building Plant, Heavy Engineering Corporation Ltd., Dhurwa, Ranchi, Bihar.

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Delhi	The Director, Shri Ram Institute for Industrial Research, 19, University Road, Civil Lines, Delhi-110008.
Delhi	The Registrar, University of Delhi, Delhi.
New Delhi	The Director-General, Council of Scientific and Industrial Research M-15, New Delhi South Extension, Part II, New Delhi-110016.
New Delhi	The Director, National Physical Laboratory of India, New Delhi-110012.
New Delhi	The Director, Inventions Promotion Board, 39, Ring Road, Mulchand Hospital Corner, New Delhi-110014.
New Delhi	The Secretary, National Research Development Corporation of India, 61, Ring Road, New Delhi-110024.

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Baroda	The Assistant Director of Industries, (Chem.) Industrial Research Laboratory, Baroda Science College Compound, Baroda-2, Gujarat.
Bhavnagar	The Director, Central, Salt and Marine Chemicals Research Institute, Bhavnagar, Gujarat.

HARYANA

Faridabad	Head, Research & Development Centre, Indian Oil Corporation Ltd., 45-46, Sector 16A, Faridabad.

JAMMU & KASHMIR

Srinagar	Director, Small Industries Service Institute, Karan Nagar, Srinagar, Kashmir.

KARNATAKA

Bangalore	The Director, Indian Institute of Science, Bangalore.
Bangalore	The Director, National Aeronautical Laboratory, Bangalore-560017.
Mysore	The Director, Central Food Technological Research Insitute, Mysore.

KERALA

Trivandrum	Professor of Applied Chemistry, University of Kerala, Trivandrum, Kerala.

MADHYA PRADESH

Jabalpur	The Principal, Government Engineening College, Jabalpur, Madhya Pradesh.

MAHARASHTRA

Bombay	The Dy. Controller of Patents & Designs, Patent Office Branch, Todi Estates, (3rd Floor), Lower Parel, (West), Bombay-400013.
Bombay	The Director, Department of Chemical Technology, Matunga, Bombay.
Bombay	The Director, Indian Institute of Technology, Powai, Bombay.
Poona	The Curator, Mahatma Phule Vastu Sangrahalaya, Poona, Ghole Road, Poona-411004, Maharashtra.
Poona	The Director, National Chemical Laboratory, of India, Poona-411008, Maharashtra.

ORISSA

Bhubaneswar	The Director, Regional Research Laboratory, Bhubaneswar, Orissa.
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PUNJAB

Ludhiana	The Scientist-in-Charge, Merado (Mechanical Engineering Research & Development Organisation), Gill Road, Ludhiana-141006.

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Jaipur	The Director of Industries & Supplies, Jaipur, Rajasthan.

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Howrah	The Principal, Bengal Engineering College, Shibpur, Howrah, West Bengal.
Kharagpur	The Director, Indian Institute of Technology, P.O. Kharagpur Technology, Kharagpur, S.E. Rly.

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Munich	The President, the German Patent Office, Zweibruckenstrasse, 12,8000 Munich, West Germany.

U. S. A.

Washington	The Commissioner of Patents, The Patent Office, Washington D.C., U.S.A.

2. All publications other than printed specifications are deposited for free inspection at the following place.

London	Office of the High Commission of India, India House, Aldwych, London, W.C. 2, England.

Additions and alterations to be made in the Patent Office Journal, 1961—1973 –Volume I

1. In part I — Chronological list of applications for Patents.

(a) Against the Nos. 78491, 78648, 78711, 78712, 78748, 78829, 78911, 78927, 78934 ,78954, 79133, 79146, 79158, 79182, 79205, 79379, 79428, 79446, 79590, 79614, 79637, 79638, 79663, 79684, 79685, 79695, 79676, 79726, 79738, 79762, 79786, 79842, 79848, 79849, 79865, 79876, 79938, 79942, 79943, 79990, 79998, 80001, 80049, for the word "Pending" *read* "Void".

(b) Against the Nos. 76834, 77629, 78502, 78835, 78841, 78983, 79226, 79443, 79617, 79658, 79986, 80003, for the word "Pending" *substitute the following* :—

76834. Merck & Co., Inc. Antihypertensive compositon, Comprises hydroxylated—α—alkyl phyenylalanines, and a carrier or diluent.

77629. General Mills, Inc., Dialkylprogesteriones. Wherein 6α–,16α–dialkyl progesterone is treated alternatively with chloranil and selenium dioxide.

78502. Herchel Smith. Process for preparing steroid substances. (September 22, 1960). A steroid compound having a saturated ring C or containing an ethylenic bond terminating at the – position is submitted to Brich reduction process.

78835. Wander Ltd., (formerly hnown as Dr. A. Wander S.A.) Process for producing 3,3′–di–2–imidazoline–2–yl carbanilide. A process for producing 3,3′–′–di–2– imidazolin–2– yl–carbanilide which comprises reacting an appropriate reactive functional derivative of carbonic acid with 3-(2-imidazolin-2-yl-)–aniline.

78841. E.R. Squibb & Sons, Inc. Synthesis of Steroids. Aerobically incubating 6α–fluoro 16α–hydroxycortizolone 16,17 acetonide in a nutrient medium and containing a microganism of the yarns *collectotrichum* on the genus *tricothecium.*

78983. Smith Stanistreet & Co. Ltd.A method of preparing sapogenins and derivatives thereof. Extracting the dried and powdered material with organic solvents hydrolysing the crude sapogenin by aqueous mineral acid, extracting the said residue by organic solvent, acetylating the residue and finally hydrolysing the 3-acetyl sapogenin.

79226. N.V. Organon. Process for the preparation of unsaturated ketosteroids. Comprises in that a keto-sterioid having bromine atom in α–position to keto group is reacted with aragonite in the presence of an organic solvent and alkalimetal halide.

79443. Chas. Pfizer & Co., Inc. (January 31, 1961). Preparation of 6–methylene–5–oxytetracycline. Comprises contacting 5–oxytetracycline–6, 12–hemikctal–12–sulfuric acid ester with a dehydrating agent and separating the 6–methylene–5–oxytetracycline from the reaction mixture.

79617. Bristol-Myers Company. Process for the preparation of α–aminobenzylpenicillin. Characterized by contacting 6–aminopenicillanic acid with S–(α–aminophenylacetyl)–thioacetic acid.

79658. Lepetit S.p.A. Process for the preparation of new antibiotic substance. Comprises refluxing rifomycin O with an excess over an equimolecular amount of a substance selected from hydrazides aromatic primary amines and aminoguanidines.

79986. Sterling Drug Inc. Process for the preparation of 1,8–naphthyridines. Comprising reacting the corresponding 3–substituted 4–hydroxy 1–8 naphthyridine with an alkylating agent.

80003. F. Hoffmann-La Roche & Co. Aktiengesellschaft. Novel ethers and process for the manufacture thereof. Reacting α-γ–dihydroxy–β, β–dimethyl–butyrolactone with an amine.

In Part II—Insert the following numbers in continuation of the numbers appearing under the following heads :—

CARBON COMPOUNDS, ORGANIC. IX (1).

(*Excepting* CELLULOSE; FATS ETC. ; *Fatty acids for soap making Glucose: Maltose, etc;*) *Gums; Oils* (*essential mineral and tar*)*; Starch and dextrin;* SUGAR; WAXES).

Miscellaneous. 78983.

Substitution derivatives of hydrocarbons and heterocyclic compounds other than dyes –

Halogen containing. 78835, 78841, 79986.

Nitrogen (but not containing halogen) —

Containing aromatic and hydroaromatic ring system, but not containing heterocyclic rings or sulphonamide or sulphonamide group in the molecule.

79443, 80003.

Containing heterocyclic ring system in the molecule, but containing no sulphonamide or sulphonamide group.

78835, 79617, 79986.

Containing no ring system in the molecule. 80003

Sulphonamide or sulphonamide derivatives. 80003

Oxygen (but not containing halogen and nitrogen) –

Aldehyde, ether, ester and other miscellaneous groups but not containing carboxylic, ketone and hydroxy groups.

78502.

Ketonic, anhydride and lactone groups but not containing carboxylic groups.

77629, 78502, 79226.

DISINFECTING AND DEODORIZING, INCLUDING MEDICAL AND LIKE PREPARATIONS. XIX (1).

(*This heading does not include washing bottles. sewage treatment and water purifying which are indexed in separate headings*).

Medicines and other pharmaceutical preparations (excepting drugs of distinct chemical composition)

Internal remedies (other than harmones and animal gland extracts).

76834, 79658.

In Part III.—Under the head "A.—Void applications" and the following numbers: —

78491, 78648, 78711, 78712, 78748, 78829, 78911, 78927, 78934, 78954, 79133, 79146, 79158, 79182, 79205, 79379, 79428, 79446, 79590, 79614, 79637, 79638, 79663, 79684. 79685, 77695, 79696. 79726· 79738, 79762, 79786, 79842, 79848, 79849, 79865, 79876, 79938, 79942, 79943, 79990, 79998, 80001, 80049.

PART 1

Applications for Patents filed from (January 1, 1971 to April 19, 1972)

(Nos. 129811—135347)

This part contains the chronological list of applications for patents made during the period from January 1, 1971 to April 19, 1972. The date and the number of each application, the name of the applicant and the title of the invention are stated in all cases except where the applications are deemed to have been abandoned or refused which are indicated as "Void". A brief summary of the essential features of the invention is given after the title in each case.

The dates shown in the crescent brackets are the priority dates claimed and allowed under reciprocal arrangements which existed under Section 78A of the Indian Patents and Designs Act, 1911.

January 1, 1971

129811. L. Danieli. A roller way for unloading billets down-stream a continuous shearing machine. Characterising rollers in carriages mutually independent and travelling on common rail interconnected by arms pivoted on carriages, and a safety device.

129812. L. Danieli. A continuous bar casting plant. Comprising at the ingot mould outlet a composite roller guide formed of a first set of rollers and a second set of rollers and curvilinear guide through an arc of about 90°.

129813. Sumitomo Chemical Company Limited. Method of antioxidation of alkali sulfite. Using a chelating agent as the antioxidation agent.

129814. Void.

129815. Void.

129816. Farbwerke Hoechst Aktiengesellschaft vormals Meister Lucius & Bruning. Process for the preparation of water soluble disazo-dyestuffs. Process for the preparation of water soluble diazo dyestuffs which comprises coupling in two steps in any order an appropriate coupling component with (i) a diazo compound of an amine and (ii) another diazo compound of an amine, the process being carried out in an acid medium at pH less than 3, and then being carried out at a pH above 5.

129817. I.M.D. Kocherginsky, 2. S.L. Kalachev, 3 V.A. Naumenko and 4. L.F. Penkova. Storage cell with dissoluble negative zinc electrodes. A cell with dissoluble negative zinc electrodes and positive electrodes fabricated from oxides of nickel or silver or air-depolarized electrodes in which there is a means causing any part to vibrate.

129818. Metallgesellschaft A. G. and The Steel Company of Canada Limited. Process of preventing or lowering the reoxidation of sponge iron. [Addition to No. 123065]. Characterized in that ammonia is included in the gaseous fluid.

129819. Vyzkumny Ustav Obracich Stroju A Obrabeni. Method for locating machines, devices, equipment or their parts. Consist' in putting the machine part on interconnecting hydraulic pads and using other independent lifting elements the machine part is located in horizontal plane where it is locked by closing the interconnection of hydraulic pads.

129820. Harbans Lal Malhotra & Sons Private Ltd. Process for the manufacture of shaving blades. Characterized in that at least one edge of a steel strip an alloy of nickel-phosphorous and/or cobalt-phosphorous having at least 6—12% by weight of phosphorous is deposited and hardened.

129821. Harbans Lal Malhotra & Sons Private Ltd. Safety shaving apparatus. Characterized in that a rotating part having blades arranged at a distance from each other around the circumference, is located inside a housing whereby each blade can be arranged in an opening of the housing.

January 2

129822. Void.

129823. Nippon Electric Company, Limited. Automatic level control system for a carrier transmission system. Characterized in that the level checking and controlling means is adapted to set the gain thereof to make the output level of pilot signal to be changed by a value substantially twice as great as the difference between the sensed pilot level and the predetermined pilot level.

129824. R. K. Jha. Improvements in and relating to suspension device. Comprising two pivotally connected members having gripping portions to engage the beam on opposite sides of the supporting face of the beam, means for connecting the load to one of the members and means for looking the members in the gripping position.

129825. Void.

129826. Void.

129827. Plastimats. An extrusion die for manufacture from polyvinyl chloride, polythylene, rubber or like thermoplastic materials, or tubes with surfaces having circumferential corrugations. The die comprising a female part and a tapering mandrel or the male part being characterised in that the front end of the said male part has an axial through hole adapted to receive and hold a guide having smooth external side surface.

129828. Guenther Systems, Inc. A conveyor device for transporting a load in a Loustrophedonic path. Comprises a frame, flexible support members a platform means having load supporting connecting members, guide means and magazine means for equalising total length of flow paths.

January 4

129829. Void.

129830. Frick Company. Refrigerant flow control apparatus. Comprising an end less conveyor belt with driving means an open top trough beneath the belt, a drain pan below the trough, an adjustable wall structure defining an overflow trough, means for adjusting the wall structures and means for introducing a refrigerant into open top trough.

129831. Universal Oil Products Company. C_8-alkylaromatic isomerization process. Isomerizing a C_8-alkylaromatic hydrocarbon in contact with an isomerization catalyst comprising an inorganic oxide.

129832. Combined Engineered Products Limited. Incremental gear drive. (January 7, 1970). Comprises input and output shafts rotatably journalled about a common axis, a central gear and a rotary housing connected to these shafts for rotation therewith, countershaft gears journalled in rotary housing and meshing with central gear and variable speed drive means for rotating countershaft gears.

129833. American Cyanamid Company. A medicament dispenser. Comprising a medicament chamber, an element of shape suitable for dispensing to the body cavity and having a conduit connecting the said chamber, and valve means for introducing gas under pressure to the said chamber.

129834. The Lubrizol Corporation. Method for preparation of amidoalkanesulfonic acids. Comprising bringing into contact (A) a hydrocarbon nitrile, (B) an olefin and (C) sulphuric acid.

129835. Sandoz Ltd. Synergistic pesticidal composition. (January 6, 1970). Incorporating a phosphoric acid ester pesticide and a compound of formula. Comprising a pin member having axial bore and boss portion having resilient means, and a plug member for said bore.

129836. Void.

129837. Void.

129838. F. Hoffmann la Roche & Co. Aktiengesellschaft. Asymmetric synthesis of polycyclic organic compounds. Cyclizing a ketone having an 1, 3-diketo or optionally an 1-cyclic oxo moiety and a cyclizable side chain substituent containing a carboxyl group in the presence of an optically active agent.

129839. Void.

129840. Void.

January 5

129841. Void.

129842. Uniroyal, Inc. Improvements in positive power transmission drive. [Divided out of No. 123907; ante-dated to November 6, 1969]. Longitudinal cross-section contour of the pulley teeth is formed by the intersection of circular arcs having their centres of curvative outside the body of the pulley.

129843. Uniroyal, Inc. A power transmission pulley. [Divided out of No. 123907; ante-dated to November 6, 1969]. Longitudinal cross-sectional contour of teeth tips is composed of two intersecting substantially circular arcs of equal radius.

129844. Void.

129845. Void.

129846. Starogardzkie Zaklady Famaceutyczne "Polfa". Process for the preparation of 1-[2′-hydroxyethyl]-2-methyl-5-nitroimidazole. Reacting 2-methyl-5-nitroimedazole in sulphate form with ethylene oxide in H_2So_4 diluted with organic aliphatic or heterocyclic compounds containing at least 1 oxygen atom.

129847. International Standard Electric Corporation. System for the throwing over of points in railway systems. In which the drive device is connected via a bent lever to a slide housing slidable once connecting rod, holding locks being mounted on the slide housing, a roller being mounted on the slide housing pushing in the direction of the connecting rod through a spring and in which the connecting rod has a recess with which displaceably engaged by means of the spring a roller guided in the slide housing.

129848. N. V. Philips Gloeilampenfabrieken. Semiconductor device and method of manufacturing the device. Characterized in that the resistance layer outside the series resistance is also provided at other areas on the body where it is completely covered by a metal layer.

January 6

129849. The Dunlop Company Limited. Composite articles and assemblies, particularly friction element assemblies thereof. (January 10, 1970). Comprises a block of non-metallic material having embedded therein a layer of porous metallic material, the said layer extending adjacent to one surface of the block.

129850. Fishburne Equipment Co., Inc. Apparatus for packing loose compressible material particularly leaf tobacco in rectangular containers. Comprises a support structure secured to the charging means, a sleeve structure four plates, means connecting the upper edge portions of the plates to said support structure and means yielding biasing said plates to swing inwardly.

129851. Mefina S. A. Push-button switch Rotary disc has a central cavity constituting a portion of an axial passage passing through the body, the lever having a cavity clearing the said axial passage.

129852. Girling Limited. Drum-type brake. (January 13, 1970). Comprises a pair of brake shoes, an actuator, an adjuster device including a pawl and ratchet mechanism a pawl carrying lever and a link extending between and connected to the lever and to a fixed member.

129853. **Hindustan Lever Limited.** Method of preparing a tea extract. An acqueous suspension of tea leaf is treated at 15-100°C with calcium hydroxide to dissolve tea solids from the leaf and the solution formed is separated from the residual leaf.

129854. **Hindustan Lever Limited.** Instant tea powders. Comprising the steps of extracting tea leaf with hot water adding tea pectic substances to the tea extract and spray drying the combined tea extract and tea pectic substances.

129855. Hindustan Lever Limited. Extraction of tea and preparation of instant tea powder from the extract so obtained. Comprising forming an aqueous suspension of tea leaf containing a peroxide to extract soluble tea solids from the leaf and separating the said extract from the residual tea leaf.

129856. **Johnson & Johnson.** Conformable adhesive sheet. Providing a porous, breathable surgical tape of fused flexible polyurethane foam which is elastic and conformable to irregularly shaped body portions and sufficiently thin to minimize puling from scraping contact with other objects.

129857. Monsanto Company. Herbicidal compositions. Comprising 3′, 4′-dichloropropionamlide and a 2-chloro acetamide.

129858. J. B. Subramoniam. Improvements in or relating to valves for regulating the flow of fluids through pipes. Comprising a valve body having a valve for a ball valve, an outer sleeve for the valve body and a push rod provided inside the sleeve for displacing the ball valve from the valve seat.

129859. Shashi Chowbey. Improvements in or relating to machines for cleaning sparking plugs. An air chamber having a roof, a body or side-wall and a base member a holder for holding sparkplug to be cleaned, within the air chamber and a sand tube for projecting a blast of sand or like abrasive on said spark plug.

129860. P. G. Gogate. An adjustable clip or clamp for holding capacitors and the like. Includes two small appendages, wherein perforated clamping strip is first locked in small hook and the free end of the clamping strip is brought near the fixed end with the help of screw.

129861. Void.

129862. Void.

129863. Void.

129864. R. K. Ambegaonkar. Improved duster. Duster component is made up of a flat felt piece adhered to the base block and a plurality of laminations of felt stuck or stitched to said felt piece, the lower ends of the laminations being free.

129865. Void.

129866. Void.

JANUARY 7

129867. Vasudev Taranath Sharma. Improvements in or relating to bins for storing materials. Having a flange or ledge above the lower edge on the inner surface of each shell for supporting disc having a closable opening at centre, a coupling arrangement on one side of each shell above the said flange or ledge, a bottom plate having an annular flange for supporting lowermost shell and a lid with annular flange or the uppermost shell.

129868. Ashmore, Benson, Pease & Company Limited. Improvements in continuous casting moulds. (January 7, 1970). Comprising a tundish, the tundish having an outlet, a continuous casting mould with a mould passage arranged with its inlet end in communication with the outlet of the tundish and a body of silicon nitride in the form of an apertured plate with the cross-sectional dimensions of the aperture being not greater than the corresponding cross sectional dimensions of the mould passage.

129869. Frank Domenico Rich. Jr. Improved building. Wherein the beams are hollow boxes each enclosing at least one room of the interior space of the building and resting its weight upon the columns.

129870. Canadian Westinghouse Company Limited. Calcium halophosphate "daylight" phosphor for fluorescent lamp. (January 9, 1970). Comprising by admixing secondary calcium phosphate, calcium carbonate, calcium fluoride, manganese carbonate, cadmium carbonate, antimony trioxide and ammonium chloride and firing the resulting mix while surrounded by an inert atmosphere to form a phosphor having the general formulation

$Ca<_{4\cdot 6}(Po_4)_3\,(Cl+F)<_{1\cdot 7}$

129871. Hindustan Lever Limited. Preparation of pyrazine derivatives and flavouring compositions incorporating these compounds. Comprising reacting a pyrazine compound with an alkylating agent in presence of a source of available oxygen.

129872. Shreeshyla Electronics. A modular time distribution system. Consisting of a master clock and capable of driving a plurality of secondary clock, comprising a generator connected to a divider, a buffer circuits and a supply source.

129873. G. D. Searle & Co. Intra-Uterine contraceptive device. Comprises a resilient bridge section and at least three undulated flexible legs diverging from the extremities of said bridge section, the length of said legs being greater than that of the bridge section.

129874. Nera Bellavita nee Cagnoli. Method for producing antibiotics. Comprising cultivating a glycoside-producing strain of Oospora virescens (Link) Wallr in aqueous glucose-organic decoction media at 10 to 25°C for 10 days in stationary culture, lyophilizing and extracting with ethanol and separating the compounds in the filtrate from each other on a chromatography column.

129875. Kawasaki Jukogyo Kabushiki Kaisha. Heating surface construction of waste heat boiler for metal refining furnace. Characterized by a construction which a welding metal having surfaces is put between whole space of the two adjoining pipes, provided that one of the said surface in a plane parallel and adjacent to the common contact plane of adjoining pipes and the other surface is a narrow plane close to the straight line connecting the assumed centres of adjoining pipes.

129876. Void.

129877. Void.

January 8

129878. Union Carbide Corporation. Constant potential AC consumable electrode welding. In which the method is characterised by tuning an L. C. circuit connected in series with a source of constant potential to resonate at the source frequencies with the capacitive an inductive reactance.

129879. Union Carbide Corporation. Apparatus for stablizing an AC arc. Comprising a passive reactance network having a series connected capacitor and inductor in parallel with an inductor the network being connected in series with an a.c. source, electrode and work-piece.

129880. Uss Engineers and Consultants, Inc. Apparatus for introducing gas to hot metal in a bottom-pour vessels. Comprising vertical gas passage having an outlet for supply of gas through nozzles, said passage being within a gate of a closure mechanism to control teeming through a nozzle in the bottom of the vessel.

129881. Void.

129882. Siemens Aktiengesellschaft. A printed circuit board having a plurality of control channels on the side thereof. Comprising an input and an interference suppressing fitter, a limit value stage connected in series with said fitter and a metalic layer divided into first and second separate regions disposed on first and second portions of the board respectively.

129883. Globe-Union Inc. An electrical resistor element having a resistive coating composition. Comprises an admixture of from about 30 to 95% of a heat-curable polymeric material selected from the group consisting of mixtures of epoxy, phenolic, malamine resins and from 5 to 70 per cent of conductive particles dispersed therein.

129884. OY Tampella AB. Apparatus for storage and transport of Projectiles, particularly finstabilised projectiles. Comprising compartments for storing projectiles characterised in that the holder rings surround the projectile to be inserted at or near their largest diameter, and further holder rings or annular parts holding the projectiles at their tapered head portion at an oblique angle to the holder plates surface.

129885. Cawood Wharton and Company Limited. Improvements in or relating to heat treatment of bodies of combustible material. Continuously moving a bed of the bodies in such manner that the individual bodies do not move relatively to one another and directing heated granular material onto the upper surface of the continuously moving bed.

129886. Emery Stone Manufacturing Co. (Regd.). Improved water-repellent cement composition. Dry mixing magnesite, magnesium chloride and compound of general formula (R Ar SO) nM where in R is an alkyl radical Ar an aryl radical, M is a metal ion n is 1 to 3 and adding to the mixture so obtained a pre-selected solvent so as to dissolve calcium alkylaryl sulfonate thus found.

129887. Pulling & Lifting Machines Private Limited. A load releasing hook. Comprising a substantially L-shaped lever having a straight vertical arm and an arcuate horizontal arm during no load condition the vertical arm pulls away under spring action.

129888. D. P. Joshi. An improved vibratory washing machine. Comprises an elliptically shaped body with rounded bottom surface, tapered sides and a lid or the top, a vibratory type washing unit inside at or near one focus of said body vertically or slanting, a switch and draining arrangement.

129889. Gopala Sankara Narayana Panickar. Improvements in or relating to drive systems for power transmission. Speed ratio of the wheel which is fast-mounted on the driving shaft and its corresponding wheel on the driven shaft being the lowest in the said system.

January 11

129890. Void.

129891. Fred Weble. A filter for cigarettes, cigars, cheroots, pipes and the like. Comprises a tube one end whereof is open and the other whereof is closed with at least two axially spaced-apart baffle plates, each of baffle plates being provided with one or more vents for the passage of smoke.

129892. Farbenfabriken Bayer Aktiengesellschaft. Benzylthiocarbamic acid esters, process of their preparation and herbicidal in secticidal and acaricidal compositions containing the same. Benzylmercapto formyl halide is reacted with a diallyl amine.

129893. Imperial Chemical Industries Limited. Foamed polyolefine films. (30th January, 1970). The surface of the film is objected to surface treatment such as corner discharge treatment.

129894. Solar Thomson Engineering Company Limited. Belt conveyor. (14 January, 1970). Comprises an endless laterally stiff carrier belt and two endless drive belts, said drive belt being laterally spaced apart.

129895. The Tata Hydro-Electric Power Supply Company Limited. The Andhra Valley Power Supply Company Limited and The Tata Power Company Limited. Improved drive system for blowroom machinery. PIV gear and cone-pulley arrangement connected to the motor drive for the pedal roller(s) are replaced by a thyristor controlled variable speed D.C. motor drive coupled with an electronic control circuit.

129896. Void.

129897. "Nikex" Nehezipari Kulkereskedelmi Vallalat. Equipment for changing circular motion into rectilinear alteration or conversely. Characterised by having a frame consisting of two parallel racks and connecting members arranged at the ends of the racks, a gear entering between the two racks.

129898. Sandoz Ltd. Process for the production of basic styrl dyes free from sulphonic acid groups. Comprising reacting 5-chloro-1 alkyl 3, 3 dimethyl 2-methylene indolene with appropriately, 1-alkyl substituted 4 amino benzaldehyde in the presence of an acid.

129899. N. V. Philips Gloeilampenfabrieken. Method of manufacturing a semiconductor device and semiconductor device obtained by using the method. [Addition to No. 112588]. Comprising that the silicon layer is provided as an epitazial layer of one conductivity type on a support of a semiconductor material of the opposite conductiviy type, the epitaxial layer is devided into parts insulated from each other by the provision of the pattern in which insulated parts circuit elements are provided to obtain an integrated semiconductr device.

129900. **South Wire Company.** Annealed aluminium alloy wire. [Divided out of No. 121421; ante-dated to 20th May, 1969]. Wire has improved ultimate elongation, tensile strength, bendability and contains iron aluminate produced by 0.45 to 0.95 per cent iron and 98.95 to 99.45 per cent aluminium, 0.015 to 0.15 per cent silicon.

129901. Void.

129902. Victory Flask Co., Private Limited. An apparatus for use in the formation of the inner vessel of a doubled walled vessel. Comparising a rotatable shaft and at least a first-system of levers consisting of a first and a record lever wherein the first end of said first lever is slidably connected to the shaft so as to slide along its length wherein the first end of the second lever is rigidly connected to the shaft.

129903. Victory Flask Co., Private Ltd. An apparatus for use in the formation of the inner vessel of a double walled vessel. [Addition to No. 129902]. Characterised in that the first end of each of the levers being slidable along the length of the shaft, away from and towards each other.

129904. Victory Flask Co., Private Ltd. An apparatus for use in the formation of the inner vessel of a double walled vessel. Characterized by a first lever, one end of which is adapted to traverse along the shaft, a forming member carried by the lever.

129905. Tej Narayan Tandon, Sundar Lal Saneja and Chandra Bhan Sharma, all of RDSO, Min. of Railways. Universal coupler. Comprising a shank and coupler head,—capable of being coupled to a co-operating coupler having a buffer face provided with first and second coupling members projecting therefrom.

129906. Asea Electric India, Private Limited. Improvements in or relating to control panel furniture and method of assemblying such furniture. Comprising box frames adapted to carry checkered grill having square windows fitted with checkered grill frame secured by means of locking clips and the screw, checkered grill frame is adapted to cover with mosaic buttons or tiles.

129907. Void.

129908. Void.

JANUARY 12

129909. Void.

129910. Void.

129911. American Cyanamid Company. Process for the preparation of A 1, 3-bis-(4-halobenzylamino) guanidine salt. A process for the preparation of a 1, 3-bis-(4-halobenzylamino) guanidine salt, characterized by reacting a p-halobenzyl-hydrizine with a 1-(p-halobenzyl)-S-methylisothiosemicarbazide.

129912. Fiberglass Limited. Binder composition suitable for binding glass fibres and bonded product thereof. (January 19, 1970). Comprises a water soluble resin urea and an ammonium lignosulphonate.

129913. Farbwerke Hoechst Aktiengesellschaft vormals Meister Lucius & Bruning. Process for treating textile materials to enhance dyeability and further processing. Characterized by treating with a solvent mixture of 50.5 per cent by weight of 1, 22-trichloro-trichloro ethane and 49.5 per cent of methylene chloride.

129914. Mitsui Toatsu Chemicals, Incorporated. Process for the production of shaped urea. Comprises compressing crystalline urea at a temperature from 50°C to 132°C and below the melting point of said urea under a pressure of at least 2 kg./cm^2 gauge to form said shapes.

129915. Void.

129916. I. Mavrovic. Recycle urea synthesis process for forming urea. [Divided out of No. 121148; ante-dated to April 30, 1969]. Comprising preheating reactor feed streams comprising ammonia, carbon dioxide and ammonical carbamate solution beyond the point of a diabatic thermic equilibrium of an isothermal reactor at 370°F in heat exchange relation with a mixture of ammonia gas, carbon dioxide gas and water vapour, passing the resulting preheated reactor feed streams to form urea passing the reactor effluent to a first ammonium carbamate decomposer, and the resulting gaseous mixture is expelled together with ammonia contained therein from liquid phase of decomposition product, the liquid phase containing residual ammonium carbamate and ammonia which is decomposed by heat absorbed by heating medium circulated through the reactor and condensing the ammonia gas carbon dioxide gas and water vapour mixture obtained from first ammonium carbamate decomposer.

129917. N. V. Philips' Gloeilampenfabrieken. Improvements in and relating to methods of manufacturing a semiconductor device (January 15, 1970). Characterised in that the semiconductor body is provided with a non-planar semiconductor body surface having thereon an insulating and passivating layer which is interrupted by a plateau portion of the non-planar semiconductor body surface and an impurity element.

JANUARY 13

129918. Rhone-Poulenc S. A. Process for the preparation of 3, 4 dihydroisoquinoline derivatives. Comprising catalytically hydrogenating an isoquinoline derivative and optionally converting by known methods a 3, 4-dihydroisoquinoline base thus obtained into an acid addition or quaternary ammonium salt.

129919. The Goodyear Tire & Rubber Company. Improvements in process for the polymerization of monomeric master-batches and products thereof. Comprises, polymerizing a mixture of unsaturated alicyclic hydrocarbon reinforcing agents filler, pigments, polyfunctional crops linking agent, extending oil and antioxidant in presence for catalyst system of (a) as organoaluminium compound, molecular oxygen (c) tungsten halide or oxyhalide and a, H_2O, H_2S, alcohols, mercaptants, or hydropenoxides.

129920. Girling Limited. Improvements relating to disc brakes. (January 28, 1970). Intermediate discs on both sides of the pressure plates have a limited angular movement and both intermediate discs transmit torque to the pressure plate acting as servo plate.

129921. Combined Optical Industries Limited. Improvements in and relating to mirrors. (January 23, 1970). Comprises a moulding of transparent synthetic plastics material having a plain face and equispaced therefrom a face having linear prisms integral therewith, the reflective power of the plain surface being different from that of the prisms.

129922. Combined Optical Industries Limited. Improvements in or relating to mirror attachments. (January 23, 1970). Comprises a mirror body including a first and second reflecting surfaces, hinge means integral with the body and a carrier having hinge means engaged by the mirror hinge means and retaining means.

129923. Acf Industries Incorporated. Fuel injection system for internal combustion engine. Comprising apparatus for non-uniform voltage having potentiometer with resistive strip having terminals, a series of adjustable taps, a voltage supply circuits with terminals, and an output tap.

129924. Victory Flask Co., Private Ltd. An apparatus for use in the formation of the inner vessel of a double walled vessel. A rotatable shaft, a forming member made of a resilient material held to said shaft, said forming member capable of being expanded in an operative state and being sealed at its upper end and held to said rotatable shaft by suitable means.

129925. Void.

129926. Laporte Industries Limited. Process for treating oxide pigments. (January 15, 1970). Comprises coating the pigment with one or more substances selected from hydroxides, hydrous oxides, phosphates and basic phosphates and subjecting the coated pigment to hydrothermal pressure treatment in the presence of water at suitable temperature and pressure.

129927. Void.

129928. Void.

129929. Sandoz Ltd. Process for the production of 1-nitro-anthra-quinones. Characterised in nitrating anthraquinones in the presence of phosphoric acid.

129930. Void.

January 14

129931. The Dunlop Company Limited, Reinforced flexible hose and process for manufacturing same. (11th January, 1970). Comprises forming rings around at least the reinforcing layer of the hose at spaced apart intervals of uncured resinous material containing reinforcement filaments and subsequently curing the resinous material rings.

129932. Industrial Holding Establishment. Improvements in or relating to rocket missiles of the impact operating type. Comprising a pair of members displaceable between inoperative and operative positions, a spring activated balance controlling arming, suitably positioned inertia block, and means for preventing return of members to inoperative position when the inertia-block is in the operative position.

129933. Verlinde. Improvements in or relating to crankshafts. Comprises first and second coaxial shaft sections constituting together a power shaft, a rod engaging bores in said sections, means for rotatably interlocking said sections while permitting aerial movement of said rod, said rod having a port inclined to rod axis and a diametral pin rigid with said ring and extending through said port.

129934. Joseph Lucas (Industries) Limited. Ignition switches. (17th January, 1970). Includes a movable contact member mounted on the rotor, first and second movable contact arms carried by the rotor and co-operating cam-means on the casing of the switch and said first and second contact arms.

129935. Farbwerke Hoechst Aktiengesellschaft vormals Meister Lucious & Bruning. Process for the dyeing of synthetic textile materials. A dyestuff like 4-bromo-3 hydroxyquinophthalone in halogenated methane or ethane is impregnated on the textile material and the dye fixed by heating.

129936. Nippon Kokan Kabushiki Kaisha. A method of continuously manufacturing cold rolled steel sheet for drawing. A heat treatment cycle comprising heating, soaking, quenching and cooling in which quenching is provided in a continuous annealing line.

129937. Izhorsky Zavod Imeni A. A. Zhdanova. Tooth of the bucket of a digging machine. Comprising a base with a lug, a changeable cap fitted to the lug by mortise joint and transmitting to the lug the resultant of different forces, and a means for securing the cap to the base.

129938. Mundipharma A. G. Process for the preparation of novel quinine polygalacturonate compounds. Reacting (a) quinine with polygalacturonic acid or (b) an acid salt of quinine with an alkaline salt of polygalacturonic acid.

129939. Nippon Kokan Kabushiki Kaisha. An improved hot rolling method of safety floor plate. Comprises spraying a lubricant onto a grooved working roll and/or the stock during hot rolling.

129940. Council of Scientific and Industrial Research. Improvements in or relating to air depolarised batteries. Comprising a porous carbon cathode element in the form of a tube for at least part of its length.

129941. Void.

129942. Void.

129943. K. K. Xavier. An improved air rifle. Barrel rear end is fixed in a screwed socket cum chamber face plate, a chamber disc housing plate, a rotative chamber disc in said housing plate, a cyliner behind an air chamber plate, an air piston in said cylinder connected with a catch attachment and a loading mechanism.

129944. Void.

129945. Void.

129946. Void.

129947. Maliakal Paul George. Electric wax sealing apparatus. Comprising a vertical chamber for wax melting electrically and welded to a horizontal having a sliding seal holder and toggel switch for the supply.

January 15

129948. Void.

129949. Void.

129950. Void.

129951. Vickers Zimmer Aktiengesellschaft Planung und Bau von Industrieanlagen. Process and apparatus for the continuous production of linear polyesters of their modifications especially polythylene terephthalate. (30th November, 1970). In the ester inter change state the mixture of dicarboxylic acid ester and polyhydric alcohol is led through a generally horizontal flow path divided into at least 2 chambers, the temperature of each of which reacting polycondensation temperature and the reaction temperature in the last or at least the last chamber is increased as composed to the preceding chamber by a predetermined amount and the dwell-time is simultaneously reduced.

129952. Void.

129953. Void.

129954. Void.

129955. Void.

129956. Void.

129957. Vsesojuzny Nauchno-Issledovatelsky Institut Burovoi Tekhniki. Device for building up down pressure on well face during drilling. Comprising a cylinder a rod with a piston telescoping in said cylinder, said cylinder and rod with piston, axially built into the drilling string and provided with a through axial channel.

129958. Victor Otto Bumba. Process for the preparation of fire resistant paint. Comprising mixing together zinc oxide powder and china clay or kaolin and treating the mix with sodium silicate and finally binding the mix by the addition of glue water and if desired colouring the mix with colouring matter.

129959. S. J. Singh. An improved closure for the fuel filling aperture of fuel tanks of automobiles. Comprises a base having orifice, said base being attachable to the inlet of the fuel tank, a lid movably attached to the said base locking means and remote control means for actuating the locking means.

129960. Void.

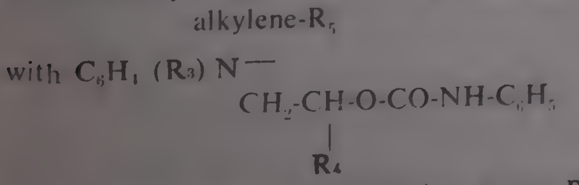
129961. Japan Gas-Chemical Company, Inc. Process for producing a formaldehyde aqueous solution having a low methanol content. Mixing air with methanol in molar ratio of air to methanol in range of 1.5 to 2.7 adding 0.75 to 1.78 moles of water per mole of methanol and an inert gas in such an amount that molar ratio of a combined mass of inert gas with water to methanol comes to 1.0 to 5.0 to the material gas mixture and then converting methanol to formaldehyde at 500 to 750°C.

JANUARY 16

129962. Council of Scientific And Industrial Research. A catalyst and an improved process for the production of maleic anhydride by the vapour phase oxidation of benzene. Consisting essentially of V_2O_5, M_0O_3, one or more oxides of elements of Groups IV, V, VI and VIII and rare earth series of the periodic table, supported on silica gel treated with strong acid and then impregnated with the salts of the active compounds as mentioned above and heated.

129963. Amsted Industries Incorporated. Auxiliary anticreep protection for railroad couplers with support shelf. The throat of the coupler provided with an opening in proximity to lock lift assembly. the upper portion of the opening forming a ledge to provide an area sufficient for engagement of the auxiliary anticreep prong of the rotary lock lift assembly.

129964. Sandoz Ltd. Azo dye compounds, process for their production and fibres, yarns and textile dyed or printed therewith. Comprises coupling diazotized $C_6H_2R_1R_2NH_2NO_2$



$$\text{with } C_6H_4(R_3)N\begin{matrix}\text{alkylene-}R_5\\ CH_2\text{-}\underset{\displaystyle R_4}{\underset{|}{CH}}\text{-O-CO-NH-}C_6H_5\end{matrix}$$

R_1, R_2 being chlorine or bromine atoms R_3, R_4 hydrogen or methyl and R_5 is hydrogen or cyanogroup.

129965. T. C. Neward. Improvements in or relating to pumps. Comprising a cylinder with piston and piston rod, a first and second hanlde, means coupling said handles, first value means coupled at first end with inlet and axhaust port, biasy means and second value means.

129966. Gruppo Iepetit S.p.A. Process for preparing steroidooxazolidines and/or steroido-oxazolidino-oxazines. [Divided out of No. 120944; ante-dated to 16th April, 1969]. Contacting a 1bu - hydroxy 17αaminosteroid with a carboxyl compound.

129967. International Flavors & Fragrances Inc. Process for the preparation of dialkylhydroxyfuran-3-ones. Comprises reacting dihalodiketone R CHX-OO.

” ”

-C-C- CHX-R with ag. alkali metal or alkaline earth metal hydoxide at 75-125°C. & being halogen and R-C_8-C_6 alkyl.

129968. Imperial Chemical Industries Limited. Fire fighting compositions. (February 5, 1970). Comprising a sodium silicate an acidic aminomine salt and a cationic or anionic salt of an amphotenic oxide.

129969. Union Carbide Corporation. Olefin production by catalytic conversion of hydrocarbons. Comprises contacting unsaturated hydrocarbons with catalyst comprising 3-dimensional zeolite molecular sieve of pore size to adsorbe benzene, (0.8-1.1) M_2O : Al_2O_3 : X Sio_2. X being 2 to 20 M is monovalent and bizealent Metal cation and n is valency of M-zeolite containing 3 surface hydroxyl per 100 frame work Al. atoms.

129970. P. J. Padshah. A physical culture apparatus for exercising hand and forearm muscles. Comprising a pair of round centrally bored carrier blocks, each carrier block having a round longitudinal hand grip terminating at one end both the carrier blocks with their respectives circular faces in juxtaposition and with two centrally bored circular discs interposed between them freely mounted on an axle through respective bores, the axle being provided with terminal check nuts, the pressure between the discs being regulated by a coil spring with adjusting nut.

JANUARY 18

129971. Void.

129972. Mail Order Sales Private Ltd. Device for waist reduction. Comprises an elongate inflatable abdominal belt adjustable fastening means on the belt, inflating means connected to the belt.

129973. Void.

129974. Void.

129975. A/S. Dansk Ieca. A rotary kiln for the production of a granular, bloated product. Characterised in that the heating zone in which the temperature of the granules increases from 300 to 400°C to 800 to 900°C incorporates a centrally located gas flow tube which is designed completely or approximately in the form of a solid of revolution and which serves to protect the granules from the oxygen in the flue gas, the granules passing through an annular cavity surrounding the gas flow tube.

129976. Joseph Lucas (Industries) Limited. Headlamp assemblies for a road vehicle. (23rd January 1970). Comprising a mounting panel secured to body of vehicle a lamp unit, first and second screws interconnecting panel and lamp unit, a support member interconnecting lamp unit and panel and resilient means acting between periphery of the lamp unit.

129977. S. C. Parikh. A one-piece clamp device for filling punched papers. Comprising two identical inclined panels each end in a longitudinal panel, inclined panels being disposed symetrically along a straight channel, two pairs of tubular and pin projection from longitudinal panels to fit with each other when clamped.

129978. Void.

129979. Ashok Wasudeo Joshi and Shyam Ramchandra Borawake Improvements in or relating to stairs an escalators. The travel line of the user of the stair will be along a parabolic curve.

129980. Victory Flask Co., Private Ltd. An apparatus for use in the formation of the inner vessel of a double walled vessel: Comprising a rotatable shaft, any known drive means adapted to be connected for rotation of said shaft a support member held in said shaft, a first spindue and a second spindle a forming member provided with each of said first and second spindle.

129981. Victory Flask Co., Private Ltd. An apparatus for use in the formation of the inner vessel of a double walled vessel. [Addition to No. 129980]. Characterised in that the said forming members are capable of being rotatably displaced at any angle between 0° and 180° said rotatable displacement being effected by rotation of said spindles.

129982. Victory Flask Co., Private Ltd. An apparatus for use in the formation of the inner vessel of a double walled vessel. Characterised by a first and second spindle rotatably held to shaft so as to rotate therewith forming members provided with each of first & second spindles, forming members capable of being oppositely rotatably displaced from 0° to 180° relative to shaft, rotatable displacement being effected by spindles.

129983. Void.

129984. Palitex Project-Company G.m.b.H. Take-up device for winding and twisting sleeves. Comprises a revolvable body with a knob-shaped head for yarn inlet and means for detatchably locking said head with the upper most sleeve.

129985. Void.

129986. Void.

JANUARY 19

129987. R. A. Managave. Flap valve for foot valves and reflax valves. Comprising a valve seat having two spaced apart protruding guidings guiding valve disc having two limbs on its periphrery.

129988. Void.

129989. Imperial Chemical Industries Limited. Manufacture of 1, 1′-disbstituted-4, 4′-bipyridylium salts and related compounds. (January 23, 1970). Comprises mixing 1, 1-disubstituted-1, 1′-dihydro-4, 4′-bipyridyl with an aqueous solution of a pre-fromed 1, 1′-disubstituted-4, 4′-bipyridylium salt, and oxidising the cation redical formed by an oxidising agent having a redox potential in an aqueous medium more positive than -p.50 volt.

129990. Dynarad, Inc. Infrared scanning system. Comprising means for receiving infrared and visual energy from apredetermined field, a visual channel arranged to receive said visual energy, an infrared channel adapted to receive said energy and including a low inertia oscillatory scanning system small infrared optics and an infrared detector.

129991. Osterreichische Stickstoffwerke Aktiengesellschaft. Improvements in or relating to the defluorination of gypsum. Comprises pre-heating the by-product gypsum at a temperature below 160°C, spraying concentrated sulphuric acid and then calcining the mixture at a temperature within the range of 200 to 300°C.

129992. Void.

129993. Void

129994. Formica Corporation. Process for preparation of laminate. Comprises preparing (i) resin blend of glycol and water insoluble thermosetting phenolic resin, (ii) treating kraft & crepe paper therewith, (iii) preparing laminate of translucent overlay sheet, melamine resin impregnated printed sheet, plurality of laminates of treated kraft and crepe papers and (iv) forming laminate thereof by heat and pressure.

129995. Rohm and Hass Company. Process for preparing hybrid copolymers. Comprises heating monomer in pores of maero reticular host polymer to cross-link therein.

129996. Chemical Construction Corporation. Electrostatic precipitation. Comprises a duct in which are transversely disposed sets of electrochargeable wires and before and after each set of wires, groundable perforated plates.

129997. American Cyanamid Company. Naturally crimped textile fibres and an improved process for preparing same. Having incorporated therein at least 1 per cent (or the weight of fibre) of a pigmentary colloidal particulate metal oxide in the form of elongated aggregations having a length to width ratio of at least 10 to 1.

129998. Ethicon, Inc. Electropolishing of drilled surgical needles and apparatus therefor. A platinum anode together with a plurality of magnets mounted on atitanium carrier and held adjacent to one surface of platinum anode, a cathode, an electrically polishing solution.

129999. Ciba-Giegy AG. Process for the manufacture of flavanthrone dyestuffs. Comprises heating 1-halogeno-2-aminoanthraquinone with copper in polar aprotic organic solvent.

130000. Ciba Geigy AG. Process for the manufacture of Azo Dyestuff compounds. Dichloro compound of mono azo-dyestuff is reacted with diaminobenzene-4-sulphonic acid and the resulting compound is condensed with cyanuryl chloride.

JANUARY 20

130001. Void.

130002. Void.

130003. B. G. Karve. Milk heating pot with improved combined device for whistling and water pouring. Characterised in that a combined tubular device having its hind open end securedly connected to a similar hole of the outer pot at right angle to the pot just below the top edge of the pot and a tubular rotating sliding cover with a funnel as its integral part.

130004. J. C. Fernandes and N. E. Fernandes. Improvements in or relating to stop cock assembly forming hot/cold water mixer. Comprising a cup member carrying a boss and screw threaded hole, rim, flange carrying screw threaded holes, lid with T-socket forming hot and cold water inlet, universal joint type valve assembly disc member filted with spindle dial plate, outlet pipe, end plunder member with threaded holes and a control knob.

130005. Void.

130006. Void.

130007. Armco Steel Corporation. A process of producing low carbon steel having excellent surface characteristics and substantial freedom from non-metallic inclusions. Comprises the steps of melting a steel containing a maximum carbon content of about 0.05% by weight, vacuum degassing the steel to obtain a carbon content of about 0.015% maximum, an oxygen content of about 0.010% maximum, and a nitrogen content of about 0.012% maximum, adding columbium in an amount at least sufficient to combine with all the carbon present in the steel casting and solidifying the degassed steel, hot rolling the steel desired thickness and cooling at a temperature up to about 1500°F.

130008. Void.

130009. Shell Internationale Research Maatschappij N.V. Method for the automatic watching of an apparatus for the preparation and cooling of synthesis gas. Comprises passing gaseous products of combustion of a fuel through helically wound externally cooled tubes in a waste-heat boiler, the excess pressure of steam in the boiler being measured in respect of combustion products, which measurements are effected by means for measuring a pressure difference which give a signal, the signals being supplied to threshold-value detector set at a value corresponding with a maximum permissible value for the excess steam pressure and which give a signal to open or open under a steam outlet.

130010. Societe D' Etudes De Produits Chimiques. Process for the preparation of new salts of pyridioxine mono-esters. (January 21, 1970). Consisting in reacting pyridoxine which has its 3 and 4 position-OH and-CH_2OH groups blocked with a compound having the general formula CICO-A COO-A1-NR. Re followed by liberation of the OH and CH_2OH groups at the 3 and 4 positions of the pyridoxine ring and treating with an appropriate acid to get the pharmaceutically acceptable addition salt.

130011. M. H. Detrick Company. Scrubbing apparatus for polluted gases. Comprising a plurality of vertically disposed elongated tanks extending between upper and lower supports, each tank crescent shaped in horizontal cross-section, the tanks being arranged in a plurality of rows, the tanks in each row being spaced from each other.

130012. Void.

130013. Nauchno-Issledovatelsky Institut Khimicheskikh Istochnikov Toka. Method of manufacturing electrode groups of alkaline accumulators. Making perforated bottom and locating holes in a steel band, cutting the band into plates, pressing active masses of opposite polarities into the plates, slipping the latter on unlike contact pins and simultaneously placing insulated spacers between plates of opposite polarities and rigidly fixing them together.

130014. Robert Bosch Gmbh. Improvements in or relating to fuel injection systems. Comprises a measuring element and an arbitrarily operable butterfly valve arranged one behind the other in the intake manifold, the former being movable proportionally to the air flowing through said manifold.

130015. Badische Anilin-& Soda-Fabrik Aktiengesellschaft. Production of o-benzoylbenzoic acid. Comprises oxidizing indance compound like 1-methyl-3 phenylindane with nitrogen dioxide in presence of selenium dioxide.

130016. Budapesti Mezogazasagi Gepgyar. Shovel machine for loading cereals. The machine according to the invention is a self-picking shovel machine equipped with throwing shovels, suitable for picking and conveying by throwing to necessary distance the cereals or other grain crops.

130017. Tronicair International Limited. Electrical heating apparatus. (21st January, 1970). Comprising first and second heating elements first and second means for desiring from a source of electric power first and second derived voltage, resistance conductors.

130018. The Upjohn Company. Process for the preparation of lincomycin analogs. [Divided out of No. 100402; antedated to July 5, 1965]. 4-Keto-l-carbobenzoxy-L-proline is reacted with propyl triphenyl phosphoniumbromide; methyl α thio-lincosaminide; the resultant methyl N-(4-propylidine-1-carbobenzoxy-L-prolyl)-α-thiolincosaminide is hydrogenated and then alkylated.

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130019. Void.

130020. Stamicarbon N. V. Recycle process for the preparation of cyclonexanone oxime and apparatus for carrying out the same. Comprises a buffered aqueous reaction medium with an acid reaction is recycled between a hydroxylamine synthesis zone and a cyclohexanone oxime synthesis zone wherein the recycle liquid before cutering the hydroxylamine synthesis zone is heated to a temperature such that the total proportion of cyclohexanone and cyclohexanone oxime contaminants in the recycle liquid is reduced.

130021. Stamicarbon N.V. Recycle process for the production of cyclohexanone oxime. In a recycle process for the production of cyclohexanone oxime in which a buffered aqueous reactions medium is recycled between a hydroxylamine synthesis zone and a cyclohexanone oxime synthesis zone, the cyclohexanone and the cyclohexanone oxime being separated by distillation before the aqueous liquid being introduced in hydroxylamine synthesis zone, in which the make up nitric acid or nitrous gases are supplied after the said distillation process.

130022. Dart Industries, Inc. Locally distortable integrally molded thermoplastic closure member. A centre main wall being substantially formed of a plurality of corrugations emanating from a centre portion thereof and tapering upwardly and outwardly from the plane of said centre portion to a terminal peripheral edge, an integral substantially smooth surfaced upwardly outwardly sloping means positioned around said peripheral edge of the centre main wall at a position proximate the uppermost portion of said corrugation.

130023. Mavor and Coulson Limited. Endless conveyor having belt tensioning means. (30th January, 1970). Comprising two devices to sense tension variation in working and return runs of the belt, a drum around which return run of belt passes, speed-variable driving gear to displace the drum and means to actuate the driving gear in response to signals emitted by the two devices when tensions are not at a predetermined ratio.

130024. E. I. du Pont de Nemours and Company. Thermometric devices. Characterized in that the heat expansible material is a solid which melts over a temperature range inclusive the pre-selected range, expands continuously with increasing temperature within the pre-selected range and has a co-efficient of expansion over the pre-selected range which is at least 3 times greater than that of the casing material.

130025. Vsesojuzny Nauchno-Issledovatelsky Institut Electrotermicheskogo Oborudovania. Electric arc furnace for melting metal. Comprising a casing lined with a refractory material supported by support arrangements which are mounted on a cradle and incorporating the weight responsive means of a weighing apparatus.

130026. R. Ramamoorthy. A shock resistant joint. Either or both of the inner and outer peripheral surfaces of the second and first members respectively are curved and at least one ring of resilient material is tightly wedged all round and into the gap between said peripheral surfaces.

130027. Void.

130028. Void.

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130029. Nalini Ranjan Mukhopadhay. A sealing device for tamperproof packaging. Comprising a metallic or non-metallic strip having at least two arms at right angles to each other and having folding edges to be folded and pressed over the straps encircling the package.

130030. Void.

130031. Void.

130032. C. J. P. Lebre. Improvements in or relating to reciprocating cable traction apparatus with power or manual drive. An engine is mounted to the case of the apparatus and adapted to drive in rotation a driving sprocket in continuous mishing engagement with a transmission member pivoted at one point to one end of a connecting arm having its other end coupled to the contarmol lever.

130033. G. D. Societa' In Accomandita Semplice Di-Enzo Seragnoli E Triosto Seragnoli. A device for automatically varying the operating speed in packing up machines for packet cigarettes. A plurality of first electroswitching means controlling the electric drive motor according to different speeds, second electroswitching means driving said first electroswitching means and a timing device controlling said second electroswitching means having contacts in series with contacts of a pair of third electroswitching means.

130034. Cassella Farbwerke Mainkur Aktiengesellschaft. Process for the production of water-insoluble monoazo dyes. Characterized in coupling $R\text{-o-o-}C_6H_4\text{-}NH_2$ with phenyl pyrozolone-3-carbonamide R being alkenyl group.

130035. Void.

130036. N. V. Philips Gloeilampenfabrieken. Method of manufacturing a semiconductor device. From a second side of the starting semiconductor body, situated opposite to the first side in which recess is provided, semiconductive material is removed until semiconductor material deposited in the recess is exposed and semiconductor elements being then formed.

130037. Gosudarstvenny Nauchno-Issledovatelsky I Proektny Institut Silikatobetona Avtoklanogo Tverdenia. Apparatus for preparing cellular mixtures based on mineral binders and gas-forming agents. Comprising a mixing chamber having a blade shaft, in the lower portion of the chamber, there are mounted at least two driven mechanical activator whose axes of rotation intersect the zone of action of the blade shaft.

130038. Gustav Schade Maschinenfabrik. Device for the removal of material from storage. Characterised in that the scraper for removal of material from storage extending over the entire dump is adapted to be raised or lowered in substantially horizontal position.

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130039. Void.

130040. Void.

130041. Smith Kline and French Laboratories. A process for the preparation of α-aminoalkyl-4-hydroxy-3-ureidobenzyl alcohols. 4-benzyloxy- α-(N-benzyl-N-t-butylamino)-3-urediautophenone hydrochloride is catalytically hydrogenated.

130042. Girling Limited. Improvements in or relating to mechanical couplings for frictional elements of a brake. (January 30, 1970). Improvements being the orientation of the axis about which the member pivots and that the steps are on the end profile of the member rather than the friction element.

130043. Melle-Bezons S. A. Process for the continuous production of β-methoxy aldehydes. Condensing a mixture of methanol and an α–β olefinic aliphatic aldehyde by passing the mixture over and through a fixed bed of a catalyst constituted by calcium hydroxide deposited on an adsorbing carrier placed in an elongated reaction zone.

130044. John Wyeth & Brother Limited. Process for the preparation of optical isomers of hexahydroazepines. (February 6, 1970). [Addition to No. 122652]. Resolving a racemic mixture of 3-ethyl-(m-hydroxyphenyl) hexahydro-1-H-azepine with tartaric acid in alcohol.

130045. Sandoz Ltd. Sparingly soluble azo compounds, process for their preparation and plastics, synthetic resins and fibres, mass pigmented therewith. Diazotizing 2 or 3 substituted 5 phenoxy carboxyl or sulphonyl aniline and coupling the product with substituted 1.4-Bis (autoaceryl amino) benzene.

130046. Sandoz Ltd. Process for the production of disazo dye. Comprising coupling 2 moles of the diazotised 1-amino-2-methyl benzene-4 sulphonic acid with 1 mole of 5.5^{1}-dihydroxy-7, 7^{1} disulpho 2.2^{1}-dinaphthyl urea at a temperature of 0° to 25°C and a pH of 3 to 8.

130047. Sandoz Ltd. Process for the preparation of disazo dyes. Coupling 2 moles of 1 amino-2.5 dialkylbenzene 4 sulfonic acid with 1 mole of a coupling component of 5.5′-dihydroxy-7.7′-disulpho 2.2′-dinaphthyl urea.

130048. Montecatini Edison S.p.A. A continuous autothermic process for the production of high titred aluminum trifluoride. Characterised in that the trihydrated alumina is first dehydrated to monohydrated alumina upto 20% of the total and then is introduced at 140 to 160°C into a preheated fluid bed reactor wherein it is contacted with hydrofluric acid vapours at 80 to 100°C.

130049. Rca Corporation. Wide band balun. Comprising an unbalanced coaxial input transmission line, having a first and second portion, a first coaxial output line, the outer conductor of first output line being electrically connected to the outer conductor of first portion of input line, a second coaxial output line, the outer conductor of second output line being electrically connected to the outer conductor of second portion of input line means located in the region of gap for electrically connecting the inner conductor of first output line to the outer conductor of second output line, means located in the gap for electrically connecting the outer conductor of first portion of input line to the inner conductor of second output line, means for providing a short circuit between a first region on the outer conductor of first portion of input line and a second region on the outer conductor of second portion of input line.

130050. Sumitomo Chemical Company Limited. Process for preparing carbamic acid esters. Comprises reacting corresponding phenyl derivative with a compound of formula R_3-CH_2-X wherein R_3 is selected from NH_2;—NCO; and—NHCOCL and X is furyl or thienyl or other like groups.

130051. The Tata Iron and Steel Company Limited. An improved method for repairing cracked or broken metal components. Comprising clamping the broken parts in alignment, forming slots in the components and then force fitting in each slot a single key to cover the entire length of the slot thereby stitching the parts together.

130052. Void.

130053. Void.

130054. Void.

130055. Void.

130056. A. B. J. G. Prasad. Roller and box type push-out stay for outward opening screen type steel windows. Comprising a hollow box closed on all sides except on one side and having an extended platform with a hole in its centre, a roller mounted on this platform in the hole, said roller having a rectangular slot through which a stay slides into and out of the box and a lock pin at the top of the roller to fix the stay at desired positions by blocking holes in the stay.

130057. Void.

130058. K. Ramaswamy. A car radiator cooling device. Comprising of a heavy gauge aluminium tube fixed to the radiator to allow the flow of radiator water expanded by heating into this tube and later when the hot water cools automatically by fall in temperature, to flow out of the tube back into the radiator tank.

130059. Void.

130060. Council of Scientific and Industrial Research. A new formulation of pickling inhibitors for steel in acid solutions. Pickling composition comprising mineral acid and corrosion-inhibitive containing thiourea, formaldehyde and hexamine.

130061. Void.

130062. H. C. Ramanna. Improvements in or relating to the manufacture of containers. Characterised by the steps of bending two adjacent sides of a laminor member towards the opposed faces of the member, bending two sections of member obliquely and convergingly, joining the bent sections together to form a joint in the region of the engaged strips, crimping the converging point of the bent sections, and providing means for attaching the bent part to the bent sections.

130063. Void.

130064. K. Periasamy. A device to harness the energy of coastal waves of the ocean. Comprising a surface float, a vertical lever rod, a horizontal lever rod adapted to oscillate on ground installed stand fixed to the power end of the vertical lever rod at one end, the other end being weighted and linked to one end of a chain passing over a sprocket wheel, the other end of the chains being also weighted and all the sprocket wheels being mounted on a common horizontal shaft.

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130065. Void.

130066. Void.

130067. Void.

130068. Pfizer Corporation. Process for preparing substituted tetrahydrahydroquinolines. [Divided out of No. 116154; ante-dated to May 30, 1968]. Comprises treating the corresponding hydroxy compound with a lower alkanol in the presence of a strong acid.

130069. Siemens Aktiengesellschaft. Improvements in or relating to apparatus for diffusing doping substances into semiconductor material. (2nd September, 1970). Comprising a heatable ampoule of semiconductor material housed within a sealed container, said ampoule containing a wofers of semiconductor material, a doping source and heating means.

130070. Siemens Aktiengesellschaft. Improvements in or relating to the manufacture of hollow bodies of semiconductor material (October 1, 1970). Comprising the steps of depositing said semiconductor material from a gaseous compound on to a heated carrier body of a different material such as carbon body until a sufficiently thick layer has been deposited, and thereafter withdrawing said carrier body from the hollow body so formed without disturbance thereto, wherein during the deposition step, the gaseous compound is mixed with a reducing gas.

130071. Siemens Aktiengesellschaft. Improvements in or relating to the production of hollow bodies of semiconductor material. (November 4, 1970). Comprising the steps of depositing a layer of the semiconductor material on the outer surface of a heated carrier body made at heat resistant material other than said semiconductor material and thereafter removing the carrier body from the deposited layer of semiconductor material without disturbing the layer of the surface of the carrier body tapers from a base of the maximum periphery to a closed end on one side only of the base.

130072. The Lubrizol Corporation. High molecular weight maleic and fumaric acid esters and lubricants and fuds containing the same. Process for preparing esters of maleic and/or fumaric acids comprising reacting of the product substituted maleic or fumaric acid acylating compounds or reacting product of an ethylenically unsaturated compound with a chloro or bromo substituted maleic or fumaric acid compound, with mono and/or polyhydric alcohols or alkylene oxides.

130073. L. J. Kiss. A ration alternator device an automatic shifter device and a shift cycle start device. [Divided out of No. 122540; ante-dated to 30th July, 1969]. Ratio alternator device, an automatic shifter device and a shift cycle start device for a rotation transmitting device including geared positive clutch systems.

130074. Void.

130075. Void.

130076. Nippon Kokan Kabushiki Kaisha. A method of drying treatment for coals. Characterised by floating coals of less than 3mm diameter on drying hot current mixed with combustion waste gas having a temperature of 250°C.

130077. Void.

130078. Void.

130079. Void.

130080. Void.

130081. Void.

130082. Void.

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130083. Wendell E. Dunn Inc. Recovery of titanium dioxide from ores thereof. Comprises (a) contacting a bed of ore with chlorine under reducing conditions at an elevated temperature (b) withdrawing iron and other metal chloride vapours (c) withdrawing continuously or batchwise a quantity of partially chlorinated bed (d) separating the withdrawn quantity into first iron free TiO_2 fraction and second iron containing fraction and (e) recycling and second fraction alone or mixed with fresh ore to step (a).

130084. Imperial Chemical Industries Limited. Process for the production of moulds. [Addition to No. 124481]. [Divided out of No. 124481; ante-dated to 17th December, 1969]. Forming a shell of a bismuth or tin alloy around a model of the article to be moulded adhering heating or cooling pipes to the metal filled epoxy resin.

130085. Girling Limited. Improvements in or relating to mechanical couplings for shoe drum brakes. (30th January, 1970). An arm movable by the rocker arm and carrying a pawl for engagement with the ratchet wheel so arranged as to cause rotation of the ratchet wheel when the actuator is operated and the separation of the friction elements is excessive.

130086. Universal Oil Products Company. Improvements in and relating to seats particularly vehicle seats. (30th January 1970). Comprises a seat part, a back part pivotally connected to said seat part an arm pivotally connected to one of said parts and (displaceably) connected to the other parts by a rack and pinion arrangement.

130087. Void.

130088. Solvay et Cie. Process for the preparation of a zieglernatta type catalyst. Process for the preparation of a catalyst for the polymerisation of olefins wherein a catalyst which contains brown $TiCl_3$ is transformed to a stereospecific violet catalyst by contacting with $TiCl_4$ at a temperature below 100°C.

130089. Void.

130090. Westinghouse Electric Corporation. Fluorescent lamps. Phosphor coating comprising a blend of three different phosphors having an emission peak at from 610nm to 650nm and a broad band emission having a bandwidth of more than 100nm a second of phosphors having an emission peak at from 435nm to 500nm and a broad band emission having a bandwith of more than 100nm and the third of phosphors having an emission peak at 510nm to 540nm and a narrow band emission having a bandwidth of less than 50nm.

130091. Kremenchugsky Avtomobilny Zavod. A device for controlling the diesel engine of vehicles provided with a motor brake. Interaction of the motor brake drive with engine manual control having a spring-loaded piston with a hollow rod through which a tie rod passed, one end of the rod being secured to the pump lever while the other end is connected to the engine manual control system lever, the tie rod having stop means interactable with a stop in the space of the hollow rod, the pneumatic cylinder being connected to the motor device by a pipe and being filled by a pneumatic cylinder of the motor brake.

130092. Edward Howard Green. Aerosol valve apparatus. Characterised by means to facilitate assembly of plunger and housing during manufacture of the apparatus, and means comprising axially aligned teeth around one of either of the exterior of the plunger or the interior of the housing and at least a pair of axially aligned ribs spaced around one of either of the interior of the housing or the exterior of the plunger, the lower ends of the teeth and the upper ends of the ribs having means piloting movement of the teeth relative to the ribs during assembly so as to mesh the teeth with the ribs when plunger is moved into the housing.

130093. Void.

130094. L. Danieli. A diffuser device for introducing a protective gas into continuous casting ingot moulds. From the periphery of an axial hole entered by a casting, a protective gas is homogenously and continuously suplied so as to form an envelope occupying the space between the ingot mould head and tundish bottom.

130095. Ube Industries, Ltd. Apparatus and process for removing impurities from solid granules. An apparatus for removing impurities which comprises a treatment column where solid granules can be contacted with a counter-current flow of an extraction liquid, an inlet for granules at the top of the column, an outlet for treated granules at the bottom of the column, an outlet for the spent extraction liquid at or near the top of the column, and at least one recirculation system adapted to remove extraction liquid from the upper limit of a treatment zone within the column and to return it to the lower limit of the same treatment zone.

130096. Cabot Corporation. Process for producing carbon black. A process for producing carbon black which comprises (A) providing an enclosed gas stream comprising combustion product gases, oxygen or mixture, thereof, (B) providing at least one feedstock atomizate-containing stream by (i) combusting a fluid fuel with, an oxygen containing gas in an enclosed zone and accelerating the resulting combustion product gas stream to a kinetic head of at least 3 p. s. i., and (ii) injecting substantially transversely into said accelerated combustion product gas stream (c) conducting each said atomizate stream of (B) at substantially transversely into the periphery of said gas stream of (A) and (D) quenching the resulting reaction mixture sufficiently downstream of said atomizate injection step of (C).

130097. Profile Identification (Proprietary) Limited. Indexing of plane surfaces. Projecting the object on to a plane surface to provide a plane shape or profile thereof, moving a straight edge across the surface of the profile at different angles and finding the position of the straight edge when the distance apart of the points on the outline of the profile is maximum and calling this position the major axis of profile, defining the position of the minor axis at an angle to the major axis, the intersection of the two axes defining the origin, measuring lenghs of radius vectors along the arms of the axes from origin to outer periphery of the profile at various angular displacements about the origin, comparing the measurements with similar measurements of dies, selecting the proper die and manufacturing the object from the die.

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130098. Void.

130099. American Flange & Manufacturing Co., Inc. Infant feeding package. Providing an infant feeding bottle seal having a recessed puncture panel by a rotationally applied downwardly directed force and having an upwardly facing gasket seal adapted for sealing engagement by an overlying nipple assembly.

130100. Dunlop Holdings Limited. Printers' blankets. Comprises a Printing surface, a compressible layer of a cellular resilient polymer and a strengthening layer embedded in a flexible polymer composition.

130101. Pfizer Inc. Process for preparing substituted benzo (b) thiophenes. (July 17, 1970). Process for preparing benzo-(b) thiophenes which comprises of reacting the corresponding benzo-(b) thiophene isothiouronium derivative with ethylene at a temperature in the range of about 20°C to about 200°C.

130102. Uss Engineers and Consultants, Inc. Apparatus for automatically supplying oil to a hot strip rolling mill. Comprises oil spray means, means for supplying oil to spray means, means for initiating operation of oil supply means and means for stopping operation of oil supply means.

130103. Void.

130104. Void.

130105. Void.

130106. Ciba-Geigy AG. Process for the manufacture of new disazo pigments. Characterized by condensing dyestuff-carboxylic acid chloride, obtained by coupling diazotized 4 chloro-3-aminobenzoicacid with 2, 5 bis-acetoacety-lamino-4-chloro-1-mathoxybenzene, with 2-p-tert, amylphenoxy-5-trifluoromethylaniline.

130107. S. Suzuki. Gear shift means for speed variation. Includes a condenser and means for charging and discharging said condenser in course of cam shaft return trip, and means for supplying said driving motor with discharge current of said condenser in the course of shifting position of switch means for the control of driving motor.

130108. K. Hayashibara. Process for the production of amylose carbamates. Process for the production of amylose carbamates comprising reacting urea and amylose obtained by subjecting liquefied starch solution to the actions of alpha-1, 6 glucosidase around the melting point of urea with or without the use of catalyst and thus producing water soluble carbamates.

130109. Nippon Kokan Kabushiki Kaisha. A continuous annealing facilities for darwing. An arrangement for continuous annealing consisting of a heating zone, a soaking zone, a rapid cooling chamber a shelf treating zone and a cooling zone in a sequence.

130110. Metallgesellschaft A. G. Process of gasifying liquid high-boiling hydro-carbons. Process of gasifying liquid hydrocarbons by a treatment with water vapor and oxygen, when the hydrocarbons are subject to a thermal primary reaction with oxygen and water vapor at temperature above 1200°C characterised by that the hot primary product so obtained, which contains carbons black, is flown in contact with a catalyst which contains chromium oxide.

130111. Gosudarstvenny Nauchno-Issledovatelsky Energetichesky Institut Imeni G. M. Krzhiznanovskogo and Nauchno-Issledovatelsky Institut Pri Zavode "Elektrotyazhmash". Induction transducer of the excitation current of a synchronous generator. Rotor of the induction current transducer being the coupling which carries field winding of the current transducer enclosed by stator.

130112. G. V. Pendse. Automatic cop-changing attachment an ordinary over-picking power loom [Addition to No. 105780]. Means for supporting hopper cop replacing device and cop pushing arrangement consists of a first bracket mounted on the front rest to be horizontally adjustable and a horizontally and vertically adjustable second bracket and a releasable fastening means for securing said barckets.

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130113. Zaklad Badan I Doswiadezen Technologii Budowy Maszyn. A riddle screen body. Comprises at least one longitudinal inner plate, cantilever beams connected to said inner plate and a pair of side plates extending logitudinally of the screeing surface.

130114. Akademia Gorniczo-Hutnicza Im. Stanistawa Staszica. Method of manufacturing hydration-resistant refractories from lime and dolomite raw materials. Crushed lime and dolomite is mixed with calcium chloride which is briquetted and calcined at 800 to 1600°C then itis crushed and mixed with a binding agent and then moulding to the prepared mass.

130115. Void.

130116. The Bendix Corporation. Electrical apparatus for storing the positive and negative extremes of analog input signals. A first voltage level storage means associating with only positive input signals and having a first output connection which provides an intermediate positive signal, a second voltage level storage means associating with only negative input signals and having a second output connection.

130117. Imperial Chemical Industries Limited. A composition comprising a powder normally causing collapse of foams and a partially hydrophobic surface treated powdered silica. (16th February, 1970). Comprising a powder normally causing collapse of foam and a partially hydrophobic surface treated powdered silica having a surface area of at 10 square meters per gram.

130118. Void.

130119. Dunlop Holdings Limited. Improvements in hose pipes. Wherein the reinforcement structure comprising layer of reinforcement members and a layer of a non-woven matrix material of randomly arranged filaments.

130120. Nripendranath Chakravarti. Transmission towers or poles. Made into three or four vertical members tapering from bottom to top, and the tower being made in at least two split sections being so, dimensioned that when the split sections are not connected to each other, then the upper section can be inserted in the lower split section partially or wholly.

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130121. Imperial Chemical Industries Limited. Treatment of brine. (20th February, 1970). A mixed media filter is used to remove a mercury sulphide precipitate which has been formed without the necessity of ensuring a neutral or alkaline medium.

130122. Naniwa Sangyo Co. Limited. A temperature-regulating device. Characterised in that a first and a second temperature detector are disposed on the body, a third temperature detector is spaced from the body, means are provided for setting the device in operation and far shutting off the device when the second and/or third temperature detector perceives the temperature associated with it or them.

130123. Council of Scientific and Industrial Research. Battery system incorporating tin anode. Comprising porous tin metal electrode as anode, silver oxide, nickel, as cathod, separated by cellophane paper, filter paper, plastic fabric and activated by alkali solution.

130124. Council of Scientific and Industrial Research. A process for the preparation of low bulk density aluminium silicate for use as an insecticide and as a carrier for pesticides. Comprises (i) treating directly the acidified aluminium chloride solution with sodium silicate solution (ii) filtering the precipitate and them (iii) drying it at 200°C for 6 hours.

130125. Hooker Chemical Corporation. Process for the generation of chlorine dioxide chlorine and the production of alkali metal. The reaction is conducted in the presence of a catalyst selected from the group consisting of vanadium pentoxide silver ions, manganese ions dichromate ions and arsenic ions.

130126. Gosudarstvenny Ordene Trudovogo Krasnogo Znameni Vaesojuzny Proektny I nauchno-Issledovatelsky Institut Tsementnoi Promyshlennosti. Device for heating loose materials. A splitter which is made in the form of a verticle shaft extending through all the chambers so as to form a circular gap between said shaft and the Chamber walls throughout their height, said gap intended for the passage of gas and material.

140127. Offshore Technology Corpn. Water floated work platform. Comprising air-sealed floatable vessel having a ballast tank therein and platform supporting means, a floatable platform said platform and vessel being movable vertically with respect to each other, mechanism for ballasting and deballasting the tank, means for retaining the platform in a desired elevated position on the platform supporting means, buoying means for buoying the work-platform, and coupling means between the buoying means and the vessel.

130128. Japan Metals and Chemicals Co., Ltd. Method of manufacturing low-carbon ferrochromium. Chrome one and lime mixture heated at 900°C and above in a rotary kiln to reduce the CO_2 content in the mixture to below 0.1 per cent, and then the 30 to 60 per cent parts of the burnt raw material obtained are smelted in an electric furnace, and the remaining 70—40 parts of the burnt raw material with silico-chromium are added and reacted with the melted slag obtained the electric furnace.

130129. N. V. Philips Gloeilampenfabrieken. Projection filament lamp. Members supporting relative conductors have unequal lengths calculated from punch seal.

130130. Void.

130131. Mrs. Nirmala Mathuradas Sangani and M. M. Sangani. Device for slicing cheese as marketted in round containers. Comprising a slicing means and a carrier member r, v. therefor, the slicing means being adapted to be rotated in a plane parallel to the chease surface and to be rotated in a plane parallel to the cheese surface.

FEBRUARY 2

130132. Void.

130133. P. U. Rajarathnam. Place finder. Comprising a hemispherical up on the inner surface of which are drawn sets of lines to represent the latitudes and longitudes and to half set up the device, a thin straight rod fixed on the rim of the cup and a thin straight needle hanging vertically downwards from the middle of the rod to coincide with the centre of the run of the cup.

130134. A. L. Kaufman. Method of reproducing indicia. Comprising steps of charging the photo conductive face of a sheet like member comprising a relatively insulating substrate and a coating of a photo conductive material on one face of substrate directing light from indicial to reproduce upon the charged photo conductive coating to produce a latent image upon the uncoated face of the substrate and applying an electrostatically sensitive toner to develop is visible image from latent image.

130135. Girling Limited. Improvements relating to disc brakes. (February 19, 1970) Characterised in that push-rod is engaged with a resilient clip for biassing its inner end in its pocket in the cam.

130136. B. Hooper. Two stroke engines. Working part of each cylinder has exhaust port means and first and second inlet port means arranged symmetrically about the longitudinal axis of the cylinder with respect to the exhaust port means and transfer passage means for each set.

130137. National Lead Company. Thread-rolling dies, and method of manufacturing the dies. A die made up of a pair of individual sections having flat and inclined die faces, the flat face is provided with ridges and valleys for rolling the thread of cylindrical region of a screw shank and the inclined face is provided in the ridges and valleys for rolling thread in the tapered free end of the shank the said faces having fixed to each other.

130138. Georges Henri Salomone. A method of emulsifying Petroleum products to form a culture medium which by oriented bio-degradation by the micro-organisms would transform into a fertilizer. In which there is mixed by mechanical agitation a composition constituted of a substance ensuring the nutrition of the micro-organism chosen from molasses, cellulose, sugar beat wastes, casein, malt extracts, proteoses, ammonium salts, amines, amides and washes, 10 to 50 parts by weight of a substance reducing surface tension chosen from calcium etc. and 5 to 60 parts by weight of water and then the mixture diluted with water.

130139. Georges Henri Salomone. Method of emulsifying petroleum products in a form degradable by micro-organisms. Comprising mixing of the petroleum product with a composition comprising a substance ensuring the nutrition of the microorganisms, an organic acid and an alkaline or alkaline earth salt and diluting the mixture with water.

130140. Farbwerke Hoechst Aktiengesellschaft vormals Meister Lucius & Bruning. Process for the manufacture of benzoxanthene dyestuffs. Diazonium salt of 3-methoxy 4 (2-aminophennoxy)-naphthalic acid-N-8-methoxy-propylinide is heated in the presence of copper or copper salts.

130141. Nippon Kokan Kabushiki Kaisha. Method of blowing such fluid as reducing gas into a furnace and boring apparatus for use therein. Characterised in that materials stuck to the inside or front part of a nozzle or solid materials floating therein are removed by means of a boring apparatus equipped in the nozzle, said nozzle being provided with fluid having higher pressure than that within the furnace.

130142. The Lubrizol Corporation. Process for preparing high molecular weight carboxylic acid compounds and their derivatives. Comprises heating a mixture of a suitable halogenated substantially aliphatic hydrocarbon and a suitable α or β halogenated saturated aliphatic acid or its derivative.

130143. Void.

130144. Void.

130145. Ciba-Geigy Ag. New packages containing dyestuffs and process for manufacture of the same. Dyestuff or the optical brightner is packed in a wrapper which is soluble in the solvent used in the preparations of optical brightner or dyesolution.

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130146. Void.

130147. Void.

130148. Void.

130149. Void.

130150. Void.

130151. Void.

130152. Void.

130153. Void.

130154. Void.

130155. Void.

130156. Void.

130157. Parkson Corporation. Process for reacting a gaseous reactant with a liquid reactant. Comprising passing a gas liquid mixture through a tortuous flow path so as to introduce turbulance.

130158. Shell Internationale Research Maatschappij N. V. Process for the preparation of phosphorylated 1, 2, 4-oxadiazole derivatives. (February 5, 1970). Reacting a 1, 2, 4-oxadiazole derivative with a salt of a phosphorus ester.

130159. Agfa-Gavaert N. V. A photographic material. (February 17, 1970). Comprising a hydrophlic support at least one light sensitive silver halide emulsion layer and the opposite side of the support and antihalation layer consisting of a die or pigment dispersed in a water insoluble alkali soluble copolymer of vinyl acetate and crotonic acid.

130160. Agfa-Gevaert N. V. Photographic materials. (February 17, 1970). Comprising a hydrophobic film support, at least one light sensitive silver halide emulsion layer and at the side of the support opposite to said light sensitive layer(s) an antihalation layer comprising a water soluble alkali soluble compolymer of acrylic or methacrylic acid, an alkyl acrylate and an alkyl methacrylate

130161. Pfizer Inc. Process for the synthesis of substituted quinazolin-4-ones. (July 17, 1970). Comprises reacting $POCl_3$ with 4, 5-dimethoxy anthranilate in N, N-dimethylacetamide and reacting the resulting product with NH_4 OH to yield 2-methyl-6, 7-dimethoxy-4(3H)-quinazolin.

130162. American Home Products Corporation. Process for the preparation of 5-aryl-2-3-dihydro-2, 2-(or 3, 3) dimethyl-5H imidazo [2, 1-a] isoindol-5-ols and 2[4, 4(or 5, 5) dimethyl-2-imidazolin-2-yl] benzophenone and addition salts. (October 2, 1970). 9b-(p-chlorophenyl)-1, 2, 3, 9b-tetrahydro-2, 2-dimethyl-1-(p-tolylsulfonyl) 5H-imidazo [2, 1-a] isoindol-5-one is treated with 85 per cent sulfuric acid and then made basic with sodium hydroxide solution.

130163. Bristol-Myers Company. A method of producing an orally effective analgetic composition. Characterized by mixing an orally ineffective but parenterally effective dose of naloxone with an orally active strong analgetic.

130164. Farymann Diesel, Farny & Weidmann. Cylinder head for air cooled internal combustion engines. Comprising injection nozzle and valve ports arranged between an upper and lower plate which define there between passages for flow of cooling air and inlet ribs and guide walls for guiding the cooling air through the passage.

130165. Farymann Diesel. Farny & Weidmann. Shaft sealing assembly. Characterised in that at least one cup spring is situated in a recess of an abutment ring bearing against a first rotary member of press the ring against a second rotary member and an elastic ring disposed around the shaft in a seating between said ring and a shoulder formed on the shaft

130166. Void.

130167. Ciba of India Limited. Process for dyeing semi-synthetic or synthetic textile materials and materials whenever dyed by the same. Comprising dyeing in an organic solvent in the presence of one or more solid and/or one or more liquid oleophilic additives.

130168. Ciba of India Limited. Random Printing process and patterned material obtained thereby. Bringing the material into contact with a plurality of pieces of auxiliary carrier each being not longer than 25m^2 and being dyed or printed with sublimable or diffusable dyestuff and heating the material and carrier pieces.

130169. Longyear Company, formerly known as E. J. Longyear Company. Chuck apparatus. Comprises a chuck body and a chuck hood that are relatively hydraulically operated to a rod release position and spring urged to a rod gripping position.

130170. Longyear Company, formerly known as E. J. Longyear Company. Rod welding apparatus and method of making drill rods. Comprising axially aliquing the rod members mechanically moving the rod members into axially aligned relationship with the first rod member mechanically holding the rod members in fixed transverse positions, mechanically rotating said and members about central axes thereof, and welding the first rod member second and to the second rod member first end while the rod members are being rotated.

130171. Longyear Company, formerly known as E. J. Longyear Company. Composite rods. Comprising a first end portion and a second and portion, a rod box having a threaded end portion, an intermediate portion and a third end portion, a rod pin with a threaded end portion, an intermediate portion and a fourth end portion, a first annular weld seam joining the body and box forming the first groove, said second end portion cooperatively forming a second groove and a second annular weld seam joining the body and pin forming the second groove.

130172. The Wheelabrator Corporation. Centrifugal blasting wheel. Wherein each of the blades has a length in the radial direction which is slightly less than the diameter of the central opening whereby blades may be removed from the wheel through said central opening and may be inserted through said central opening for mounting on the said wall.

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130173. Bayer Aktiengesellschafts, formerly known as Farbenfabriken Bayer Aktiengesellschaft. Process for the production of sulphonamides. Comprises, reacting corresponding amines or with 2-formylpropyl 1-2-sulphanchloride in the presence of an acid binding agent.

130174. Bayer Aktiengesellschaft, formerly known as Farbenfabriken Bayer Aktiengesellschaft. A process for the production of solvent-free spontaneousy crosslinkable polymer powders. Comprises removing solvent from an anhydrous solution containing (a) an N-Hydroxymethyl and or N-alkoxy methyl amide of an α-β unsaturated amide and (b) at least one additional copolymerisable mono-olefinically unsaturated co-monomer in a flash evaporator and then size reducing to from 20 to 120u.

130175. J. H. Fenner & Co. Limited. Improvements in and relating to convey or belting. (February 5, 1970). Comprising a textile carcass impregnated with polyvinyl chloride, an inner layer of P.V.C. covering the impregnated textile carcass and an outer layer of natural or synthetic rubber covering the inner layer.

130176. Halcon International Inc. Process for preparing glycol esters of olefins. Continuously removing a liquid effluent from oxidation zone, separating a residue having higher boiling point than the ester from effluent and contacting the residue with a carboxylic acid medium.

130177. Void.

130178. Hindustan Lever Limited. Improvements relating to the treatment of karanja oil. Comprises sulphonating the unsabonifiables of karanja oil with concentrated sulphuric acid removing the sulphonation product and then neutralising with alcoholic alkali followed by treatment with activated carbon and/or bleaching earth.

130179. Void.

130180. Void.

130181. Great Salt Lake Minerals and Chemicals Corporation. Process for the production of anhydrous potassium magnesium sulfate material with low hygroscopicity from hydrated potassium magnesium sulfate material. Comprises (1) heating the hydrated material below about 350°C for at least about 15 minutes and then (ii) subjecting the dehydrated material to above about 350°C for a duration in excess of about 5 minutes.

130182. Vereinigung Volkseigener Betriebe Braunkohle. Process and device especially for the mining of brown coal. Characterising submerge slit-trenches with lift and shafts inside, guided by shaft vehicles and the mined material suctioned as coal water mixture and conveyed overground hydromechanically to separating unit where water is separated.

130183. Jawa, narodni podnik. Headlight for motor vehicles. Consisting of a mirror parabolical insert, an output glass surface and a headlight cone connected by means of a resilient ring which is slipped on a periphery of the connected parts such that those parts one continuously lightened together.

130184. Void.

130185. Void.

130186. Diamondhead Corporation. Apparatus for transferring loads. Comprising a load carrying base structure on which the load is to be transferred and flexible support means movable between first position on said base structure and second position over the underlying surface.

130187. Void.

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130188. Void.

130189. Void.

130190. Void.

130191. G. D. Societa in Accomandita Semplice Di Enzo Seragnoli E Ariosto Seragnoli. Conveyor device for assembling overlying layered sets of cigarettes and packing them in packets in cigarette packaging machines. Characterised by comprising a belt element with one of its faces provided with transverse teeth, said belt having an elongated looped configuration with horizontal runs about idle gears, wherein said transverse toothing is internally of said loop so as to mesh in a drive belt fashion with the toothing of idle gears and having attached to the face opposite the transverse toothing and externally of the loop a cigarette set storing and assembling containers.

130192. S. D. Patel. Improvement and modification in tractor driven cultivators. Comprise fitting a set of beams to the frame work already provided on the tractor such that the beam extends from the frame and in each extended end of the beam is formed a slot to engage the stem of the cultivator shear and close to said slot is a lug formed on the beam.

130193. Void.

130194. Void.

130195. Void.

130196. Sandoz Ltd. Dibenzothiophene dioxide derivatives, their production and their use as optical brighteners. Comprises reacting 1mole of corresponding dibenzothlophen dioxide with two moles of corresponding aminophenols followed by bilateral ring closure to the bisoxazole.

130197. The Benning Elektrogerate Kommanditgesellschaft Safety lighting device. Comprising an elongated housing and switching means for connecting a battery to a light source in the housing in the event of means failure.

130198. Void.

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130199. Void.

130200. Abex Corporation. Machine tools. Comprising a drill support head a motor, a reciprocal carriage guide means, means for reciprocating the carriage and means for shifting the slide with the carriage.

130201. National Distillers and Chemical Corporation. Apparatus for measuring the proportion of monomers in an olefinic ester or acid copolymer in a fluid plastic composition. Includes a capacitance measurement means, means for inserting the capacitance in the composition and means coupled to the capacitance for providing an output indication of the proportion of the monomer.

130202. Sherriti Gordon Mines Limited. Process for controlled reduction roasting of nickeliferous iron oxide ores (February 10, 1970). Finely divided or particles are suspended in a moving gas stream and contacted with gaseous reductant for a very short period of time.

130203. Alexander Baxter Limited. Improvements in and relating to methods of and means for vacuum deposition (February 12, 1970). Providing a filament of conducting element with coating material, positioning the element in the chamber, heating the element electrically to evaporate and deposit on the surface, then moving the element away from the surface whilst the chamber remains closed, positioning a different portion of the filament relative to the surface and evaporating the material.

130204. Smith Kline Corporation. Process for preparing complexes of phosphanilic acid and acridines, having antibacterial activity. Comprises mixing together in a solvent corresponding phosphanilic acid with the acridine.

130205. Void.

130206. Void.

130207. Void.

FEBRUARY 8

130208. Bekaert-Cockerill. Method for manufacturing steel wool, profile steel wire to be used in this method and steel wool manufactured according to this method. Characterised in that the profile of the cross section of the wire consists of a semicircle with diameter D and a filling rectangle width B equal to diameter D and height H varying between ⅓ XD and × ⅔XD.

130209. Shell Internationale Research Maatschappij N. V. Process for regenerating a deactivated reforming catalyst. Contacting a catalyst, comprising at least one noble metal of group VIII of the periodic table, at least one metal having an electronegativity in the range from 1.6 to 2.0 at least one halogen and an oxidic refractory support, with an oxygen containing gas to effect carbon removal, then contacting it with a non reducing gas containing oxygen steam and at least one halogen, contacting it with the non-reducing gas containing at least one halogen drying and reducing the catalyst with hydrogen containing gas.

130210. Void.

130211. Ciba of India Limited. Process for the preparation of azo dyestuffs. N, β-hydroxyethyl-N-(N-methyl-carbamoyl) methyl-m-soluidine is coupled with diagodised 2-chloro-4-nitro aniline.

130212. Sandoz Ltd. Process for the production of 1, 5-dihydroxyanthraquinone. Condensing meta-hydroxy benzoic acid by heating in an aluminium chloride sodium chloride melt.

130213. Void.

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130214. Void.

130215. Farbenfabriken Bayer Aktiengesellschaft. Thiolcarbamic acid esters and herbicidal compositions containing the same. Sodium salt of 3-chloro-4-methoxybenzyl mercaptan is reacted with N, N-hexamethylene carbomoyl chloride.

130216. Void.

130217. Borgs Fabriks Aktiebolag. A method of operating energy absorbers and an apparatus therefor. Characterised in that along opposite end walls are located equal pressure channels through which a minor portion of the return liquid from the vane ring is passed to the rotor in let.

130218. Siemens Aktiengesellschaft. Terminal seals for insulated cables or conductors. There is enclosed between the mould and the cable an insulating material which is formed of 40-60% for petroleum 20-30% of colophony resin and 20-30% of mineral oil.

130219. Aktiebolaget Vibro-Verken. Vibrator driven by compressed air. Characterised in that the number of starts of the screw threads on the enveloping cylinder being one more than that in the cylinder arranged eccentrically inside it.

130220. Void.

130221. International Standard Electric Corporation. A storage device for electric signals and a television system incorporating the same. Comprising a first switch designed to connect a plurality of storage elements, each storage element comprises a capacitor in series with one of a plurality further switches, a control circuit having outputs respectively connected to the further switches.

130222. Emhart Corporation. Improvements in or relating to apparatus for depositing groups of articles into upwardly open packing cases. Comprising infeed conveyor grid means for receiving charge of articles, means for rotating said grid, means carried by grid for releasing articles into packing case.

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130223. Siddeshwar Sen. An apparatus for lifting water operated by a ram going down a closed cylinder. Comprising a vessel having an inlet pipe fitted with a valve at the vessel base, a delivery pipe attached to said pipe between the valve and the vessel, means to operate the valve and a pressing unit consisting of a ram slidable in the vessel, means for applying extra weight on the ram and a pipe with air-tight tap for passage of water through the ram.

130224. Siddeshwar Sen. An apparatus for lifting water operated by a ram going down a closed cylinder. Comprising a cylindrical vessel having an inlet and a delivery pipe a pressing unit having a ram and means for applying extra weight on the ram.

130225. Siddeshwar Sen. An apparatus for lifting water operated by a ram going down a closed cylinder. Comprising a cylindrical vessel having an inlet cock close to the top of the cylinder, a delivery pipe at the bottom, a pressing unit consisting of a ram and means for applying an extra weight on the ram.

130226. Void.

130227. Void.

130228. Conch International Methane Limited. Methods of welding together sheets to form walls, tanks or the like. (March 19, 1970). Comprising using connecting member having a rail spaced from edges, overlapping edge of each sheet with said edge mounting and tranversing welding machine along the rail while welding.

130229. Void.

130230. Void.

130231. Void.

130232. S. E. M. Sollerud. A process for manufacturing fluid tight packages from rigid foamed thermoplastic material. The surfaces to be joined are simultaneously heated to the melting point of the material over their entire extension and the surfaces thus joined are put a compression pressures.

130233. Stone & Webster Engineering Corporation. Process and apparatus for removal of acidic gases from hydrocarbon streams. Comprises passing the hydrocarbon gas through an aqueous alkali metal hydroxide reacting the effluent with aqueous H_2SO_4 removing the acidic gases by stripping and subjecting the resulting aqueous alkali metal sulfate solution to an electrolytic process to recover H_2SO_4 and alkali metal hydroxide.

FEBRUARY 11

130234. Dunlop Holdings Limited. Pneumatic tyres. (February 14, 1970). Comprising a plurality of spaced apart ground contacting blocks provided at or adjacent the tread crown region with a longer ground contacting surface edge length, a shorter circumferential ground contacting surface edge length.

130235. Stamicarbon N. V. Cyclilprocess for preparing and working up a hydroxylammonium salt solution. [Addition to No. 130020]. The improvement that the step of effecting the said heating in the presence of nitrous acid at a temperature of at least 50°C.

130236. Aktiebolaget Bofors. A device for a sight for a field artillery gun. Comprising gimbal suspension mounted parallel to the axis of barrel, a control member connected to sight and following traversing movement of the barrel and being imparted corresponding relative counter-rotation in relation to traversing movement, adjustable connection means between control member and sight for setting sight harizontal independent of inclination of pivot shaft suspension.

130237. Joseph Lucas (Industries) Limited. Reflective elements for mirrors particularly rear view mirrors for road vehicles. (February 14,1970). Being formed of transparent material in the form of a plurality of parallel strips of triangular cross-section with the optical edge of each integral with the base of an adjacent one, one side having a plane front surface and the opposite side extending at an angle to the said front surface.

130238. Hindustan Lever Limited. Anti-plaque and anti-calculus dentifrice. Comprising a sparingly water-soluble zinc salt and a compatible abrasive.

130239. K. Krishan. Improved equipment for drilling bore holes. Comprising a drilling string composed of a plurality of lengths of drill pipes screwed and socketed for being coupled together, a swivel connected to upper end of the first or upper most length a drilling bit adapted to be connected to lower end of lower most length, said drill pipe comprising a cylindrical pipe encase in and welded to a triangular or polygonal section pipe.

130240. Void.

130241. International Standard Electric Corporation. (February 13, 1970). A process for producing tubular channel members and a jig for carrying out the said process. Wherein jig is applied to channel member so as to be aligned with the slot therein and is locked in position on the said member with the loosely assembled studs protruding through said jig and wherein further a tunnel key adapted to cooperate with protruding head of a stud is applied to each stud.

130242. Void.

130243. Void.

130244. General Electric Company. Automatic control system for crop shear. Comprising a shear, control means, drive motor, speed limit means, means for detecting location of crop line, means for calculating shear start position and means for continuously calculating the position of said crop line.

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130245. Nagar Varadaraja Kailasa Sarma. Improvements in or relating to purses. Characterised in that it further comprises a plurality of spaced pouches capable of accommodating coins, provided on the exposed surface of the first member, a third foldable member adapted to be folded to cover the pouches and the first pocket, a fourth foldable member adapted to be folded to cover the second pocket and means for fastening the third and fourth members in their folded positions to the first and second members or to the first and second sections.

130246. K. K. Xaxier. Improvements in or relating to air rifles. Mechanism comprises a chamber face plate with a screwed socket in which the barrel is fixed, a chamber disc housing plate behind the face plate a catchet wheel having same number of teeth as the holes in said chamber disc, a pawl inserted in said disc and engaging said wheel a spindle engaging said wheel and the shaft.

130247. The Goodyear Tire and Rubber Company. Improvements in inflatable shetter and method of enection. Comprising a reinforcing grid having a first reinforcing means and a second reinforcing means transversely across the first reinforcing means, the ends of all the reinforcing means being fastened to the base at the periphery of the enclosure, tether restrain to means connected to the base and the reinforcing means, a covery envelope comprising strips attached to the reinforcing means, adjacent edge of strips being connected together while ends of the strip are enclosed to the base and means supplying inflation pressure to the envelope.

130248. Institut Elektrodinamiki Akademii Nauk Ukrainskoi SSR. Apparatus for measuring two parameters of impedances. Comprises an a.c. bridge with inductively coupled ratio arms, the other arms of which comprise the unknown and a standard impedance the apparatus further comprising two modulators for producing modulating, or trial, signals affecting the out-of balance sign of the bridge.

130249. J. Sondhi. Window frames for railway carriages and other transport vehicles. Lower face of the panel is provided with at least one rib between two channels or recesses the channels and the rib mating with complementary rib and channel form in the sill, the rib on the panel being wedge shaped and the channels being tapered in section, the channel and rib on the sill being complementary shaped.

130250. Dr. Z. Kutar. An air cooling unit. Comprising a cabinet, an insulated ice box, a pump, a heat exchanger, outlet connected to the ice box for circulation of cooled liquid.

130251. Void.

130252. Sur Extinguishers Corporation. Improvements in or relating to fire extinguishers. A cartridge sealed with a frangible valve which can be broken off for discharging the fire extinguishing fluid.

130253. Medtronic, Inc. Device for automatically defibrillating a malfunctioning heart. Comprising sensing means, discriminator means associated with sensing means, storage means for storing electrical energy, electrode means for connecting the storage means directly to the heart and means for automatically switching storage means into a discharge state.

FEBRUARY 15

130254. Council of Scientific and Industrial Research. A process for the manufacture of vulcanizable graftcopolymer for use as synthetic rubber and base in coating compositions. By sulphochlorinating polyethylene with sulfuryl chloride characterised in that maleic anhydride is added to the system during sulfochlorination.

130255. Void.

130256. Shell Internationale Research Maatschappij N. V. Process for the preparation of substituted 1, 4-quinone derivatives. (February 17, 1970). Characterized by reacting 4, 7-dimethoxybenzo (d) triazole with chloride gas to produce 5, 6-dichloro-1-methylbenzo (d) triazole-4, 7-dione.

130257. Void.

130258. Void.

130259. International Flavours and Fragrances Inc. Process for preparing thioalkanol-S-oxide. Comprises reacting an alkyl sulfinyl chloride and a lower tertiary amine and recovering the product at a temperature below —50°C.

130260. Koninklijke Industrieele Maatschappij Noury and Van der Lande N. V. Porcess for preparing a liquid photosensitiser composition. (March 26, 1970). Benzoin is reacted with mixt of alcohol like isobutanol at a temperature in the range of 60—120°C in the presence of an acid reacting compound.

130261. Kamyr Aktiebolag. Screening device in cellulose digesters. Characterised in that a header for collecting the filtrate is heated at the inner side of the digester shell adjacent to the filtrate chamber, being connected to at least three compartments of the divided filtrate chamber, and having a single outlet extending through the digester shell.

130262. A. R. Wilfley and Sons, Inc. Centrifugal pump and seal means therefor. Comprising pump casing having inlet, outlet and a shaft expeller means, impeller, sealing means between the casing and shaft having second sealing portion engageable with first portion, operating means with spring means and speed responsive actuator.

130263. Void.

130264. Void.

130265. Void.

130266. Void.

130267. Standard Telephones and Cables Limited. An improved electric cable. (February 26, 1970) Addition to No. 122854]. Wherein the plastics paper laminate is longitudinally wrapped with overlap around the conductor leaving a plastics surface outer most the outer overlapping part of the overlap being folded back on itself to provide contacting plastics surface which are sealed to present a circumferential plastics surface.

130268. Sandoz Ltd. Process for the production of heterocyclic compounds. 13.3 parts of 3-heptyl-dibenzofuran and 10 parts of 5-methyl-3-tert-butyl-2-hydroxybenzyl alcohol are dissolved in 70 parts of dichlorethane and condensed in presense of 10 parts of 80 per cent sulphuric acid.

130269. Kumiai Chemical Industry Co. Ltd. A process for preparing a herbicidal composition containing S-(monochloro, dichloro-or methylbenzyl) N, N-dialkylthiocarbamate and 2, 4-dichlorophenoxy acetic acid or ester or salt thereof. A process for preparing a herbicide which comprises admixing S-(monochloro, dichloro or methylbenzyl) N, N-dialkyl-thiocarbamate with 2, 4-dichlorophenoxy acetic acid or ester or salt thereof, in a ratio of 1:0.1 to 1, together with a carrier and/or a binder.

130270. Snam Progetti S.p.A. Process for the preparation of a partially halogenated polyimine. Comprises reacting an albalic metal hydride, selected from lithium hydride and sodium hydride, in less than stoichio metric quantity required for the formation of aluminium tri-hydride, with aluminium trihalide and reacting the resulting product with a primary amine.

130271. Merlin Gerin. A gas blast electric circuit breaker, Comprising in that a safety valve means is inserted between gas supply conduits and a source valve means being responsive to pressure differential of said conduits.

130272. Void.

130273. J.A. W.P.V. Bergen. Ear-ornament clips [Divided out of No. 122772; ante-dated to August 16, 1969]. Characterised in that the compression spring means consists of an element made wholly of a natural or synthetic elastomeric material the sizes and shapes in relation to one another of said element as manufactured on the one hand and the space located between the resilient parts of said other clip member as manufactured such as to ensure that said element would always be under compression and tend to maintain the resilient parts in such positions relative to one another as to maintain said frictional mating.

130274. Void.

130275. Kulwant Singh Iqbal. Improvements in or relating to pesticide application equipment. Comprise a manually operated power unit comprising a uni-directional gear box, air blower to supply compressed air and a tank to supply pesticides to a dispensing attachements for either spraying or dusting.

130276. Void.

130277. J. A. Mansuri. Improvement and modification in chassis of and shock absorbers for auto Rikshaws and three wheeled vehicles. Comprising a chassis, a front and two rear wheels additional from numbers extending from the rear and of the chassis, a leaf spring means mounted on the rear wheels and held to the said from members by spring holders.

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130278. Hemant Patel & Co. Rotary internal combustion engine. Comprises rotor housing consisting of two and plates with an inter-connecting member therebetween, a rotor ring spaced from end plates and held to said housing, an eccentric mounted on a shaft within said ring and a balance ring held to one side of said ring.

130279. USS Engineers and Consultants, Inc. Spray nozzle. comprising inner and outer elongated concentrically arranged tubes with length wise slots in their walls, a lip fixed to the inner tube along one edge of the slot and projecting into the slot of the outer tube.

130280. The Norwich Pharmacal Company. Method of preparing 1-(substituted benzyl) tetrahydro-2-(1H) pyrimidones. By reacting 2-hydroxy pyrimidine hydrochloride with p-aminobenzyl bromide.

130281. Void.

130282. Farbwerke Hoechst Aktiengesellschaft Vormals Meister Lucius and Bruning. Process for preparing water-soluble monoazo dyestuffs. Diazotizing an appropriate amine and compling with a corresponding pyrazolone derivative.

130283. Siemens Aktiengesellschaft. Improvements in or relating to pulse regenerator circuits for pulsecode molulation systems. (November 30, 1970). In which, output voltage of discriminator being fed via a low pass filter to a frequency control circuit of the local pulse generator, and means being provided between the discriminatory and frequency control circuit to prevent timing fitter of the local pulse generator.

130284. Siemens Aktiengesellschaft. An enclosure for surrounding electronic components. Including a heat transference wall formed to define pathways along which fluid medium from outside the enclosure can pass between quantities of fluid medium inside the enclosure so as to exchange heat with the latter fluid medium through heat transference wall.

130285. Siemens Aktiengesellschaft. Improvements in or relating to signal channel combination systems and a polarisation diversity receiver system employing the same. (November 26, 1970). Comprising n channels each of which contains a common coherent signal together with uncorrelated noise signals, a combination network to form n linear combinations of original signals, and 2(n-1) regulator circuits.

130286. Vsesojuzny Nauchno-Issledovatelsky I Proektno-Konstruktorsky Insitut Metallurgicheskogo Meshinostroenia. A rotor mould for continuous casting of metals. Comprises a hollow water coated casing fitted with a circular metal tyre with an annular recess, endless metal band surrounding partially the tyre and enclosed in the casing disk shaped pieces abutting on the side walls of the tyre and grooved on the wall adjoining sides.

130287. E. I. du Pont de Nemours and Company. Water-in-oil emulsion type blasting composition. [Addition to No. 115982]. Comprising an inorganic oxidising salt component, a nitrogen base salt sensitizer, water, water insoluble organic fuel, lipophilic emulsifier and gas bubbles incorporated in an amount 5 to 50 per cent by volume of the composition.

130288. Void.

130289. Swiss Aluminium Ltd. Anodes for use in electrolytic cells. The part of the anode in contact with the bath consists of an oxidic electron-conducting ceramic material chemically resistant to the fluoride bath for aluminium production.

130290. Boehringer Mannheim Gmbh. Process for the production of effervescent tablets and powders. (December 11, 1970). Comprising moist granulating alkali metal carbonate or bicarbonate and pure sodium dihydrogen citrate.

130291. L. Elsbett and G. Elsbett. An improved method of making a piston head and an apparatus for carrying out the said method. Piston ring groove and/or piston seafing face is/are made by roll-forming the material of the piston head.

130292. L. Elsbett and G. Elsbett, Improved piston, especially for compression ignition engines. Space at the back of the oil control ring is connected by at least one return flow system, arranged separate from the oil control ring and leading towards the cylinder wall.

130293. N. V. Philips' Gloeilampenfabrieken. Improvements in an relating to semiconductor devices. (February 29, 1970). Characterised in that each diode unit consists of an array of semiconductor diode elements and comprises a semiconductor water having at one major surface a first contact portion and opposite major surface an array of upstanding, mutually spaced second contact portion, adjacently stacked diode unit being connected by an interposed electrically conductive lamina.

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130294. Council of Scientific and Industrial Research. Improvements in or relating to glass coated glass fibres. Core glass consisting of a high (1.6 above) refractive index glass rod having closer chemical compatibility to clad glass (outer glass) is kept in a tubing of low refracting index (about 1.5) clad glass, the assembly is kept in a tubular furnace having a temperature 1000° at the centre of the furnace, and the outcoming fibre is stuck to a drum and the fibre is wound on the drum of surface speed about 4500 feet/minute.

130295. Council of Scientific and Industrial Research. An electro-chemical process for the production of para-aminodimethyl aniline from para-nitrose dimethyl aniline for making methylene blue. Characterised in that the reduction is carried out using a copper cathode, either stationary or rotating and an anode which is separated by means of porous diaphragm.

130296. Koniklijke Nederlandsche Gist-En Spiritusfabriek N. V. New Process for the preparation of cephalosporanic acid derivatives. (February 18, 1970). Characterised in that the penicillanic sulphoxide compound is heated upto 160°C under anhydrous conditions in the presence of at least one nitrogen-containing organic base and a silicon compound having a silicon-halogen bond.

130297. FMC Corporation. A retainer assembly for the rollers of a cylindrical roller bearing cage. Comprises a pair of spaced end rings and equally spaced space bars having opposed concave surfaces defined by two partial cylindrical surfaces formed about axes parallel to roller axis and intersecting along a line.

130298. Uss Engineers and Consultants, Inc. Contact assembly in a rotary type plating apparatus. Contact assembly consists of a contact member on the periphery or a rotatable member and engageable with other side of a sheet to make electrical contact, and having a contact edge, sealing means adjacent the contact member.

130299. Void.

130300. Void.

130301. Void.

130302. A. A. Akulov, I. A. Vorobieva, A I. Vustina B. I. Kuznetsov, V.I. Radin and I.L. Frid. Alternating-current electric machine. Includes a split housing having a supporting frame fitted with transverse ribs, the locating surfaces on the end ribs giving support to the end shields, and the locating surface on the intermediate ribs having carrying the stator core.

130303. H. S. Gandhi, H. S. Gandhi, K. S. Gandhi and Smt. Kanchanben Shantilal Gandhi. Heating unit. Comprising a furnace body with a burner a first coil spacedly disposer within the body a pump connected to the inlet of the first coil, the outlet of the coil leading to a heating system.

130304. Void.

130305. Void.

130306. Energy Conversion Limited. Improvements in and relating to electrochemical cells. (March 7, 1970). Comprising gas-light contains window of which consists of at least two laminated materials selectively allow the passage of hydrogen but prevent the passage of oxygen, carbon dioxide and water.

130307. L. Danieli. Improvements in continuous casting equipment. (October 1, 1970). Casting lines are located on a substantially curved line and wherein the side casting lines are set back relatively to the inner casting lines and the feed box is provided with lateral walls which are convex outward.

130308. Sandoz Ltd. Azo compounds, process for their preparation and fibres, yarns and textiles dyed or printed therewith. Comprises coupling diazotised amine O^2N-C_6H_2 (R_1 R_2) NH_2 with naphthyl-NH_2 alkylene Co O-R_3 where R_1 is Cl,-Br-CN or acyl, R_2 is CN-NO_2 and R_3 is lakyl or aryl radicals.

130309. Stauffer Chemical Company. Method for preparing aluminium fluoride. Continuously reacting aluminium hydrate with gaseous hydrozen fluoride in at least two fluids operating in series.

130310. Sur Extinguishers Corporation. Improvements in or relating to fire extinguishers. Fire extinguisher which has the inner metallic wall of its body lined with polyethene for the prevention of corrosion and wherein the bonding between said wall and the polythene lining is effected by means of an epoxy resin.

130311. The Bunker-Ramo Corporation. Pin and socket removal tool. A tool is provided by a hollow tubular body adapted to be held manually with slide and phergen members extending therefrom.

130312. Void.

130313. Prakash Nath Gupta Gravity and air compressor engine. Comprises a rotating shaft having mounted thereon a drum a compressor wheel mounted on the same shaft and enclosed within said drum, on one end of said shaft mounted a centrifugal governor while on the other end thereof being provided with a handle to rotate the shaft manually.

130314. Kapur Singh. Chair with table. Wherein the chair has at least one arm of tubular section, an angular member one limb of which is rotatably held to the arm while the other limb is rotatably held to a support provided with the table.

130315. Colgate-Palmolive Company. Detergent compositions. Comprising a water soluble paraffin sulfonates water soluble alkyl ether sulfates and a viscosity and clarity control system.

130316. Telefonakticholaget L M Ericesson. Cable connector member. Comprises a rigid cylindrical casing having an insulation disc fitted at one end, a cylindrical insulation body fitted in the casing with one face abutting against the inner side of the disc, a plurality of axially slidable contact bodies and locking means.

130317. Void.

130318. Takeda Chemical Industries., Ltd. Method for producing citric acid. Inoculating a citric acid accumulating yeast belonging to the genus Candida, capable of utilizing hydrocarbons, in a medium containing phosphorus and a hyrocarbon and incubating the culture until citric acid is accumulated.

130319. Dynamit Nobel Aktiengesellschaft. Process for the preparation of alkali metal benzoates. Comprises isolating methyl benzoate, by fractionation from the product left after the isolation of dimethyl terephthate obtained via, oxidu of pxylene and saponifying and it followed by recovery of the alkali benzoate salt.

130320. Dynamit Nobel Aktiengesellschaft. Improvements in or relating to dimethyl terphthalate. Characterized by carrying out the oxidation step in the presence of a combination of cobalt and manganese compounds.

130321. Seismograph Service Corporation. A seismic vibrator for generating acoustic waves. Comprises a structure forming at least one plenum chamber having at least one large opening and one small opening means for providing air under pressure in said chamber, and means for modulating said air under pressure in said plenum chamber.

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130322. Centre De Recherches De Pont-A-Mousson. Device for coating foundry moulds. Wherein there is provided in the supply pipe in series with the pump a diaphragm pressure exchanger which is connected, on one side of the diaphragm, to the vessel and apparatus and on the other side of the diaphragm, to a control fluid supply pipe.

130323. Stamicarbon N. V. Preparation of N-substituted acetaldimines. Reacting in the liquid phase acetaldehyde with an aliphatic or cycloaliphatic primary amine containing a secondry or tertiary carbon atom on the nitrogen atom thereof in the presence of a water-immiscible solvent for the acetaldimine reaction product.

130324. Intermenua (Proprietary) Limited. Improvements in or relating to shearing or cutting machines. Having a fixed blade and a pivotally mounted blade and a non-yielding table located adjacent the fixed blade.

130325. Void.

130326. K. Fujiwara. Improvement in a disc-type steam trap. Characterized in a bimetal ring expanding or contracting in the annular space in pressure chamber under influence of temperature, an annular Member above the ring, and overhanging portion on the inner wall of inner cover, the expansion and contraction of bimetal ring due to temperature changes acting to open the disc valve at lower temperature.

130327. Jg Glass Industries Pvt., Ltd. Improvements in or relating to a vacuum flask. [Addition to No. 124077]. Characterised by that the outer casing has a wide mouth, the inside diameter of which is larger than the outside diameter of the glass flask contained therein.

130328. Jg Glass Industries Private Limited. Liner or inner container of a vacuum flask. [Divided out of No. 124077; ante dated to November 18, 1969]. Within a glass flask an independent container having a flanged piece at its upper end which sits over the rim of the glass flask and extends on to the rim of the outer casing.

130329. Uralsky Zavod Tyazhelogo Mashinostroenia Imeni S. Ordzhonikidze. Wheel-rolling mill. Comprising bedplate mounted on two inclined drive rolls, two pressing rolls on movable slides, a movable carriage with two master rolls.

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130330. Void.

130331. Cognate with application No. 130120.

130332. Jg Glass Industries Private Limited. Stoppers for use with vacuum flask. [Divided out of No. 12477; ante dated to November 18, 1969]. A first externally threaded skirt depending from a cap, which is of smaller diameter than the cap, an inwardly projecting annular flange and a second skirt forming the wall of a bulb which seats the mouth of the container.

130333. Intermenua (Proprietary) Limited. Shearing machines. Including a first fixed blade and a second blade movable over the first, a continuous support and biasing means acting to resist displacement of the support.

130334. Void.

130335. Mefina S. A. Sewing machine presser foot. Characterised in that means for coupling sole to pressure bar comprises a clamping member and an intermediate member comprising means permitting work feed dog to move the sole in the work feeding direction and for restoring the same in a normal central position.

130336. Void.

130337. Void.

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130338. Void.

130339. Void.

130340. Void.

130341. Chinoin Gyogyszer ES-Vegyeszeti Termekek Gyara RT. Process for the preparation of 2-sulphonyloxy ethylamino derivatives. Process for the preparation of w. w'-di-(2-R-sulphonyloxy ethylamino)-hydroxy alkanes which comprises reacting a corresponding w, w'-di-(2-ethylamino) hydroxyalkane with a sulphonic acid or its heavy metal salt.

130342. Void.

130343. Imperial Chemical Industries Limited. Process for reducing residual acidity of an ester product. (March 18 1970). Contacting the ester product with steam and finely divided solid alkali at above 100°C.

130344. Void.

130345. Industriele Onderneming Wavin N. V. Sealing means for a pipe line and a pipe line incorporating the same. Consists of a ring-like member with one circumferential skirt, one surface of the skirt being provided with protruding parts.

130346. Monsanto Company. Method of vulcanizing rubber and 3-cycloalkylthio-3-ezabicyclo [3.2.2.] nonanes inhibitors, used therein. Comprises inhibiting premature vulcanization by incorporating corresponding sulphinamides into a vulcanizable rubber composition containing sulfur-vulcanizing agent and an organic vulcanization accelerating agent.

130347. L. Gardner & Sons Limited An exhaust system for multi-cylinder internal combustion engines. The firing sequence is such that the exhaust process of the cylinders of each cylinder pair do not occur together.

FEBRUARY 24

130348. Inland Steel Company. Method for producing a rimming ingot containing a fume-producing ingredient. Characterised by further step of filling ingot leaving neck of the mould empty, permitting the steel to rim without rise in its level in the mould, introducing fume producing ingredient in the stilling rimming steel, pouring additional molten steel to fill the ingot neck immediately and then copping said ingot to frieze to top of ingot neck to seal the ingot.

130349. V. G. Gokhale. Improvements in or relating to machine for casting precast concrete products by immediate demoulding. Comprising at least one mould with vibration device overturning or piston pressing means for the mould, mould lifting and lowering means for casting by egg-laying method and mobile means to move a step head after depositing the casting.

130350. Pilkington Brothers Limited. Apparatus for feeding batch material for glass manufacture. (February 25, 1970). Comprises an elongated feed element, means for mounting said feed element for angular motion, means for delivering batch material into the feed element and driving means to effect and control swinging motion of the feed element.

130351. Pilkington Brothers Limited. Improvements in or relating to the stacking of sheets. (February 25, 1970). Comprising a rotary stacking device having at least one sheet carrying face on which a sheet is horizontally loaded from a conveyor and which to a vertical position for unloading it to a support surface and transfer means to carry said sheet into a desired position on the surface.

130352. Ranks Hovis McDougal Limited. Improvements in the production of edible protein substances. (February 25, 1970). Comprises cultivating nontoxic strains of Penicillium notatum or Penicillium chrysogenum or a varriant or mutant thereof in a medium containing assimilable carbohydrate and isolating the protein containing proliferated organism.

130353. The Bunker-Ramo Corporation. Electrical connector having laminated contact element. Comprising a plurality of their metal plates each having a hole therein and each having a single integral resilient tine projecting from an edge portion of said hole which being aligned for engagement of said tines.

130354. Tecumseh Products Company. Improvements relating to compressors. (December 15, 1970). Has a discharge conduit connected to the compressor outlet by means of at least one telescopic joint between a male member and a female member, said female member having a bore terminating at its inner end at an internal shoulder and terminating at its outer end at an exterior surface.

130355. Sincat-Societa Industriale Catanese S.p.A. Process for the recovery of ammonium sulphate from its aqueous solutions contambinated by organic substances. Characterised in that ammonium sulphate solution is additional with nitric acid so that its concentration in the mother solution of the subsequent evaporation phase shall not exceed 15% by weight, the solution then subjected to evaporation and crystallised ammonium sulphate is separated.

130356. Parkson Corporation Process for preparing superphosphoric acid. Comprising passing phosphoric acid through a confined tortuous flow path comprising parallel passes between closely spaced parallel plates having a high surface-to-volume ratio, applying heat through the walls of the flow path to phosphoric acid thereby concentrating the acid to a P_2O_5 content of at least 68% and separating by usual methods.

FEBRUARY 25

130357. Void.

130358. Void.

130359. Void.

130360. Void.

130361. Imperial Chemical Industries Limited. Process and apparatus for cooling extruded tubing. ((March 3, 1970). Passing an extruded tube over a cooling mandrel, supplying a cooling liquid between the mandrel and the tube, maintaining a head of liquid capable of exerting pressure on said film of liquid and withdrawing the liquid from said head.

130362. Void.

130363. Uniroyal Engebert France S. A. A treat reinforcing breaker for pneumatic tire. Comprises a first plural layer ply structure having elongated metallic reinforcing elements and a second plural layer ply structure having enlongated non-metalic reinforcing elements, the layers of the second ply structure having a single length of non-metallic breaker cord extending circumferentially about the crown region of the carcass.

130364. Westinghouse Air Brake Company. Automatic electric line coupler with removable contact unit in railway cars. In which the multiple contact units are accessibly arranged so as to removable and replaceable without removal of the electric conductor connecting parts on from the coupler mating head.

130365. Westinghouse Electric Corporation. A self-lubricating bearing assembly. Comprises a bearing support structure with an oil passage formed therein, a rotatable oil pumping drum and an oil scoap and distributing structure.

130366. Kars Elecrtonics. A device for indicating & controlling the conductivity of liquids in process. Comprising a pair of electrodes to be fitted in the container containing liquid. the electrodes in turn are connected to the current sensing device, the out put of which is connected to a rectifier and an indicator meter in parallel. the out put of the rectifier gives the D. C. signal which is fed to two channels consisting of a D. C. amplifier, a triggering circuit with the set control and a relay is connected in series, the out put of the relay being connected to the mechanism operating the control valves and also audio visual means.

130367. Farbwerke Hoechst Aktiengesellschaft vormals Meister Lucius & Bruning. Metal complex compounds of the monoazo dyestuffs and process for their preparation. Treating monoazo dyestuffs with agents yielding metals.

130368. Void.

130369. Void.

130370. Serpo, personenvennootschap met beperkte aansprakelijkheid. Process for the application of a uniform coat of liquid to an object, and apparatus for its operation. Comprises uniformly spreading the liquid or to a movable distribution means and then projecting it from said means on to an objects by an electro-statically charged body.

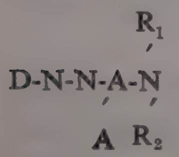
130371. Deutsche Gold-Und Silber-Scheideanstalt Vormals Roessler Calcium thioctate. Dissolving thioctacid in alcohol reacting the acid with a base and precipitating calcium thioecetate by addition of aqueous calcium salt solution.

130372. Otto Alfred Becker. Method of resistance welding of metal sheets. [Addition to No. 112519]. Spot or roller seam welding of metal sheets and like which are coated on one or both sides with coatings which interfere with normal resistance welding comprising removing the interfering coating at the spots to be welded by milling or like mechanical cutting operations in specific geometrical shapes.

130373. Dr. Shyam Sunder Ghose. Process for manufacture of magnesite bricks. A mixture of zircon and titanium compounds used as mineraliser is added to dead burnt magnesite, the mixture is then shaped and fired.

130374. Ciba-Geigy Ag. Process for the manufacture of new azo compounds. Comprises condensing a cyanuric halide with 1-amino-8-hydroxy-naphthalene-3, 6-or-4, 6-disulphonic acid reacting the product with an amine, and condensing the product obtained with a di-or-trihalogentriazene.

130375. Ciba of India Limited. New azo compounds, processes for their manufacture and use. Comprising condensing a monoazo dye of formula



$$\begin{array}{l} \qquad\quad R_1 \\ \qquad\quad / \\ D\text{-}N\text{-}N\text{-}A\text{-}N \\ \qquad\ /\quad / \\ \qquad A\ R_2 \end{array}$$

when D is a radical of a diazo Compents.

R_1—R_2 are alkyl and Ac′ is a chloroaklyl carbonylamino with a primary or secondary arylamine, phenol or thiophenol.

130376. Farbwerke Hoechst Aktiengesellschaft vormals Meister Lucius & Bruning. Antistatic thermoplastic moulding compositions and shaped, articles, sheets or fibres manufactured therefrom. Comprises a thermoplastic material and a suitable trialkyl phosphine oxide.

130377. Badische anilin & Soda-Fabrik Aktiengesellschaft Substituted 1-phenyl-4-acetoacetatamino-5-halogen-pyridazone-(6) compounds, process for their preparation and herbicidal compositions containing the same. Comprises reacting 1-phenyl-4-amino-5-halo-pyridazone-(6) with diketene in the presence of a solvent.

130378. Brown, Boveri & Company Limited. Improvements in or relating to damping means for isolating apparatus from external mechanical shocks. Comprising first body portion attached to a support for apparatus, second body portion, centering damping elements blasing the body portions into a rest portion.

130379. F.L. Smidth & Co., A/S. Treatment of cement raw materials and plants for use therein. (February 26, 1970). A controlled amount of hot kiln gases are by-passed the slurry on their way to the dust precipitator so that the temperature of the gas entering the dust precipitator is in the range of 150 to 300°C.

130380. Nippon-Kokan Kabushiki Kaisha. A method of obtaining hot pig iron. Charatcerized by blowing monoxidizing gas for operating a shaft furnace with pre-reduced pellet at the temperature higher than that of charged materials at blowing positions, thereby preheating said pre deduced pellet or scraps.

130381. N. V. Philips Gloeilampenfabrieken. Method of producing a basic powder for permanent magnets. Producing a basic powder forming building stone essential for the permanent magnetic properties for permanent magnet by cruding a casting of a compound having a hexagonal crystal structure and then pulverizing the same in a hydrogen gas atmosphere.

FEBRUARY 26

130382. Void.

130383. A. R. Balsara. An improved device for diffusing different varieties of fragrances or medicated or disinfectant or deodorizing odours. The device has a deep niche or intricate recess or recesses being adapted to hold fragrant or medicated or disinfectant or deodorising volatile liquid.

130384. Void.

130385. Void.

130386. Void.

130387. Void.

130388. Void.

130389. Joseph Lucas (Industries) Limited. Rocker switch assemblies. (Feburary 28, 1970). Includes first and second rocker switches, a U-shaped resilient member, the limbs of said resilient member constituting first and second latch pieces having definite operating characteristics.

130390. Goesudarstvenny Ordena Trudozobo Krasnogo Znameni Vsesojuzny Proektny I Ňauchno-Isšledovatelsky Institut Trementnoi Promyshlennosti. Method of producing cement clinker and binder containing ground cement clinker produced by this method. Grinding individually the components of the mixture containing 60 to 80%/weight/ telife slime and 20 to 40% of carbonate rocks, mixing their roasting the mixture at 1480° to 1520°C.

130391. Void.

130392. Space Research Corporation. A projectile assembly. Including a projectile and a sabot having a plurality of separate angular segments secured in place around the projectile by annular band the segments and the projectile and the segments and the bond having intermeshing surfaces.

130393. Veb Filmfabrik Wolfen. Improvements in and relating to the development of photographic emulsions. (January 8, 1971). Process for developing an exposed gelatine silver halide photographic emulsion which comprises treating the emulsion with a hydroquinone formaldehyde bisulphite developer containing a graft polymer of polyethylene glycol and acrylic acid and if desired, vinyl acetate.

130394. Krakowskie Zaklady Farmaceutyczne "Polfa". Process for the preparation of furan carboxylic acid pyridylamides revealing pharmacological action. Comprises reacting aminopyridine with furan carboxylic acid cloride in the medium of dioxane and then alkalised by means of a weak base.

130395. Void.

130396. Council of Scientific and Industrial Research. Distillation apparatus for attar and perfumed water. Comprises (i) a distillation flask (ii) a main body connected with it and at the top, it is connected to a doubled walled condenser, the body having a graduated tube and arrangement for siphoning of the water automatically to a receiver and (iii) a condenser for condensing the vapours which comes through the side tubes of the main body.

130397. Council of Scientific and Industrial Research. Process for the manufacture of hyoscine (scopolamine or its salt in a pure form from plant material of species such as *Datura Stramonium* or *Atropa Belladona* which contains the total alkaloids consisting of hyos cyamine and hyoscine. Consisting the following steps viz. isolating the total alkaloids from *Datura Stramonium*, fractionating hyoseine and hyoseyamine by dissolving the total alkaloid and purifying scopolamine by preparing scopolamine hydrobromide by reacting with hydrobromic acid.

February 27

130398. Void.

130399. Void.

130400. Void.

130401. Snia Viscosa Societa' Nazionable Industria Applicazioni Viscosa S.p.A. Method for the production of alicyclic ketenes. An alicyclic acid is subjected to heat treatment in a metallic reaction vessel at 400° C to 900° C.

130402. Void.

130403. Void.

130404. Girling Limited. Improvements in or relating to disc brakes. (March 12, 1970). [Addition to No. 110741]. Comprising rotor surface to which the or each brake ring is secured extends generally obliquely to the axis of rotation.

130405. Imperial Chemical Industries Limited. Process for manufacturing quaternary lebucaruamine compounds. (March 5, 1970). Comprises reacting corresponding michler's hydrol or correspondingly di-di substituted-amino phenyl-methanol or similarly substituted methyl mercaptan or alkyl ethers thereof with a corresponding amino comound.

130406. Imperial Chemical Industries Limited. A carbon paper for use in the preparation of a master copy to be used in a spirit-reproducing process and a process for preparing the same. (March 5, 1970). Comprising a support material carrying a substantially colourless coating transferable to a master copy sheet by the act of pressing the master sheet against the carbon paper containing a leucauramine compound.

130407. Oike & Co., Ltd. Process for cutting filmy materials in slit thread and warping the thread. Comprises cutting a filmy material on drawing into a number of threads, warping the thread through a reed set lowered the right angle and winding the resultant thread around a drum.

130408. Riv-Skf Officine Di Villar Perosa S.p.A. Roller bearings, especially needle bearings. Comprising a cylindrical outer casing, a plurality of roller elements and an annular member at each end of the outer casing.

130409. G. Robertson, K. Robertson, R. Robertson and W. B. Dolby. Pedestrian-controlled transport carriage. (April 30, 1970). Comprises a ground traversing endless track means with a drive unit, a load carrying means and control means for actuating the carriage.

130410. N. V. Philips' Gloeilampenfabrieken. Stretcher for removing patients. (March 2, 1970). A frame having at least two parallel upper guides on the front and rear sides for a belt portion movable over said guides for supporting a human body furthermore having at least two parallel lower guides on the front and rear sides for a belt portion which is movable over said guides and capable of contacting the ground, said two belt portions move in same direction.

130411. K. K. Xavier. A fluid operated loading mechanism for air rifles. Comprises a thin wire rope guided at two intermediate points and having its front end fixed in the rear end of the rifle's air piston rod while its rear end fixed with a knot resting against the rear end of a plunger, a cup leather fitted at the rear end of the plunger, an inner cylinder in which said cup leather work a flange and a cover nut screwed to rear end of said cylinder.

130412. Void.

March 1

130413. Void.

130414. Void.

130415. Rhone-Poulenc S. A. Anisotropic organosilicon polymer, membrane process for preparing a said membrane and a method of enriching at least one component of a gas mixture comprising at least two of oxygen nitrogen hydrogen, carbon dioxide, helium, methane and carbon dioxide. A ternary mixture comprising vinyltriorganosilane polymer two solvents the boiling point of which differ at least by 30° and a non-solvent is cast into a support, more volatile solvent is partially removed the resulting film is treated with a non-solvent liquid and the film is dryed.

130416. Shell Internationale Research Maatschappij N. V. A process for the selective removal of hydrogen sulphide from gases containing hydrogen sulphide and carbon dioxide. Characterised by contacting the gas mixture with the alkanolamine solution at a low temperature and high gas velocition in a try coloumn with fewer than 20 contacting trays.

130417. Bayer Aktiengesellschaft, formerly known as Farbenfabriken Bayer Aktiengesellschaft. Process for the production of radiation-crosslinkable polymers. Monomers containing (meth) acryloyloxy groups and radiation crosslinkable vinylene carbonyl or vinylene carbonyl vinylene are subjected to radical polymerisation in heterogeneous phase.

130418. Mefina S. A. Solid product with lubricating properties and process for manufacturing the same. Comprising hexagonal boron nitride and sulphur as a support agent.

130419. Void.

130420. Void.

130421. Void.

130422. N. V. Philips Gloeilampenfabricken. Method of manufacturing a semiconductor device and a reactor therefor. Comprising that the elongated in which the process is performed exhibits a decreasing sectional area viewed in the direction of the gas stream.

130423. Void.

130424. Void.

130425. Void.

130426. Wheel Carrier Holdings (Proprietary) Limited. Improvements in or relating to spare-wheel carriers for vehicles. Comprises a body having means for mounting it on a chassis, fixed and movable hook members, means for biasing movable hook member away from fixed hook member and handle means.

130427. Void.

130428. Marine Protein International Corporation. Method and apparatus for providing a cultivation medium for the rearing of fish. Characterised by providing at least one vertically extending space containing a body of water at or near oxygen saturation level; continuously supplying water at or near oxygen saturation level, and continuously overflowing used water.

130429. Merlin Gerin. Double pressure compressed air electric apparatus having an air drying device. Comprising high pressure and low pressure air enclosures, a compressor with outlet and inlet, valve means connected to said inlet, pressure sensitive control means and air drying means.

MARCH 2

130430. Colgate-Palmolive Company. Cleaning compositions adapted for shampooing carpets and the like and process for preparing such compositions. Comprising a water soluble organic surface active agent, a higher aliphatic, fatty alcohol and a finely divided water insoluble siliceous material in an aqueous medium.

130431. Lewis Woolf Griptight Limited. Infants feeding bottle. (March 4, 1970). Comprises a bottle, a resilient teat with an outlet orifice a removable teat cap, and closure means.

130432. Imperial Chemical Industries Limited. Manufacture on 1, 1'-disubstituted-4, 4'-bipyridylium salts. (March 5, 1970). [Addition to No. 121906]. Process for the manufacture of a 1, 1'-di(hydroxyalky)-4-4'-bipyridylium salt which comprises reacting an N-hydroxyalkyl pyridinium salt with a cyanide under basic conditions and subsequently oxidising the resulting interaction product to produce the bipyridylium salt.

130433. Texaco Development Corporation. Process for the alkylation of an isoparaffin with an olefin in the presence of a sulphuric acid catalyst. Characterised in that the reaction mixture is maintained under alkylation conditions in at least two alkylation reactors one refrigenated by emulsion flashing and one refrigenated by effluent refrigeration.

130434. Pfizer Inc., formerly known as Chas. Pfizer & Co. Inc. Process for the preparation of analogous of lapachol (May 5, 1970). Reacting in the presence of a suitable solvent the metal derivative of 2-hydroxy-1-4 napthaquinone with an alkylating agent.

130435. Void.

130436. Void.

130437. Lin-Huey Chang. Paper match book assembly. [Divided out of No. 126821; ante-dated to May 26, 1970]. Wherein portions of paper board sheet separate the head of match sticks and a portion of the stick portion of match sticks, a plurality of match sticks defining a group of match sticks and wherein assembly defines at least a pair of groups the spacing between the head portions of adjacent matches in any one group being less than the spacing between adjacent groups a portion of paper board sheet being cut away leaving the end of stick portion opposite head portion apart paper board sheet and extending therefrom.

130438. IMS Limited. Medicament package adapted for containing a volatile medication. Comprising a cylindrical shell vial an inwardly extending annular shoulder integral with said vial, having an imperforate resilient stopper within the vial, the peripheral portion of that side of the stopper facing the open end of the vial forming a seal on the inner surface of the said shoulder, the stopper being adapted to reciprocate in a piston like fashion.

130439. William Joseph Bradley. A method of making a new pigment for use in organic polymer paint compositions. Providing a pigment which includes microscopically thin leafing glass flakes which will flow toward and leaf at the outer surface of the coating applied to a substrate.

130440. Preformed Line Products Company. An appliance for holding an elongated linear body relative to a fixed generally cylindrical member. Includes a first portion preformed into an elongated helix of open pitch, and a second portion extending generally laterally from the helix and then in an open reverse curve and terminaling in a reversely bent portion to form a hook.

130441. Void.

130442. Council of Scientific and Industrial Research. A process for ash reduction of natural graphite by chemical treatment in aqueous solutions. Comprises heating graphite powder successively in Hcl, NaoH, HF and finally Hcl solution.

130443. Council of Scientific & Industrial Research. A domestic iron removal unit. A process for the removal of iron from domestic water comprises passing the water through the three cylindrical shells of a form shelled domestic iron removing unit stailed are alone the alter, the top three shells having perforated false bottom and filled with gravel and sand and the topmost two shells having side holes for anating the water.

130444. Void.

MARCH 3

130445. Void.

130446. Void.

130447. W. V. Haumeder. Method and apparatus for refining molten metal. Comprising forming molten metal bath with foamed slag cover, discharging jets of oxygen-containing gas beneath the slag surface and introducing hot cooling additive to form a liquid refining jet, and directing said jet on to the surface of the bath to refine the metal.

130448. Nedschroef Octrooi Maatschappij N. V. A machine for manufacturing screw bolts and the like. Including a reciprocable trimming die co-operating with a trimming punch attached to die plate and a mechanism to start the operation of trimming die at the beginning of the working stroke of carriage to distribute trimming operation over greater portion of working stroke.

130449. Compagnie Pechiney. Process for producing a **master alloy for the treatment of spheroidal graphite cast irons.** Alloying iron, silicon, magnesium and barium in the proportion-Si-40-55%, Mg=3-15%, Ba=1. 4-8.6% the remainder iron with the inevitable impurities, calcium and aluminium introduced during manufacture in total concentration of less than 2.5%. the ratio –by weight of Mg:Ba being from 1:1 to 3:1.

130450. Void.

130451. Void.

130452. Farbwerke Hoechst Aktiengesellschaft vormals Meister Lucius & Bruning. Process for the separation of impurities from crude gas. The stream of crude gas is cooled by contacting with atomized cold calcium chloride solution to a temperature of the calcium chloride used for drying and an amount of salt solution corresponding to an amount of 8 kg calcium chloride per 1000 normal cubic meters of crude gas put through is removed from the cycle.

130453. Merck & Co., Inc. Vaccine for immunization of poultry against marek's disease. Comprises inocculating a monolayer cell culture with the strain Avian Herpesvirus IV of A. T. cc No. VR 584 incubating and then removing the cell, separating with trypsin and replating on a fresh monolayer cell cultures serially passing through the cell culture of the same type and preserving the useful quantity by dispersing them in the final passage with trypsin.

130454. Grain Processing Corporation. Starch manufacture from corn. Comprising steeping the fractured corn kernels in an aqueous solution of So_2, Se separating the flour from the slurry and recovering the starch from the steeped material.

130455. Void.

130456. British Railways Board. Improvements relating to slip-form paving machines. Comprising a laterally adjustable roadway surface conforming member sensing means mounted for lateral movement with the conforming member for sensing a datum controlling lateral position of the conforming member, actuating means for laterally adjusting the conforming member, and programmed control means arranged to be driven in synchronism with movement of the machine for moving the sensing means laterally relatively to the conforming member.

130457. N. V. Philips' Gloeilampenfabrieken. Pressure-operated control device for a filtering apparatus. (March 4, 1970). Comprises a duct for connection thereto with the interior of the dirty liquid tank wherein means are provided for passing a fluid under pressure through said duct.

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130458. The Fertilizer Corporation of India Limited. Liquid level indicator (graphic type). Wherein the electronic unit consists of number of sensing circuit units, each sensing circuit unit having an electrode at its input being dipped in the reservoir containing liquid and consists of impedance changer connected to differential amplifier and switching device for switching the indicating unit for displaying the liquid level of the reservoir.

130459. The Fertilizer Corporation of India Limited. Capacitance level alarm. Comprises an oscillator, a positive feed back being provided to the base of the oscillator from the oscillating coil of the oscillator the base of the oscillator being connected to the sensing electrode which form a capacitor with respect to common earthing. a negative feedback being provided to the base of the oscillator by means of a variable capacitor connected between the base of oscillator and the common earthing in such a way that the capacitors of the variable capacitor adds to the capacitors between the sensing electrode and the common earthing in parallel and thus quenches the oscillator and predetermined level the output of the oscillator being fed to detector d.c. amplifies and switch to on/off the alarm automatically.

130460. The Fertilizer Corporation of India Limited. Continuous level indicator for solids and liquids. Comprising a square wave generator of variable frequency followed by an emitter follows amplifier for shaping the square waves, the out put of the amplifier being fed to a transistor switch in such a way that the switch being opened in the first half of the square wave and closed in the next half cycle of the square wave, the output of the switch being connected to the sensing electrode through a charging diode in such a way that the capacitor formed by the electrode with respect to the body of the container being charged when the switch is opened and being discharged through blocking diode and a meter when the switch is closed.

130461. Bhabha Atomic Research Centre. Filter for respirators. Wherein a bellow type filter consisting of circular discs, of filter medium having holes at its centre except top disc being joined together with a soft metallic eyelet and ring means and being separated by separator means to keep the proper distance between the discs being mounted on the base plate, the discs being sealed together all round the peripherics so as to form the bellow and provided in the casing.

130462. Void.

130463. Eastman Kodak Company. Photographic bleach fixing compositions. Comprising (a) a water soluble silver bleaching agent and an anion comprising Fe III complexed with polyfunctional ligand (b) a water soluble secondary legand and (c) if not provided by (d) a water soluble silver halide fixing agent.

130464. Void.

130465. Koninklijke Nederlandsche Gist-En Spiritusfabriek N. V. Process for the preparation of enzyme-polymer complexes. Comprises mixing an aqueous solution of an enzyme with an aqueous solution of a polymer. the polymer may contain optionally substituted hydrocarbon groups and the carbon-carbon chain of the polymer or hydrocarbon substituent(s) are optionally interrupted by hetero atoms, preferably oxygen atoms, and precipitating and separating the resulting enzyme-polymer complex.

130466. Farbenfabriken Bayer Aktiengesellschaft. Process for the manufacture of copper phthalocyanine and nickel phthlocyanine pigments. Characterized in that reaction of 1. 3-diamino-isoindoline with copper salts or nickel salts is carried out in the presence of optionally substituted benzyl cyanides at temperature below 190°C.

130467. Void.

130468. Sandoz Ltd. Process for the production of fixing agents for anionic dyes. Characterized by the separation and removal by known methods of the water insoluble components from aqueous solutions of the condensation product of polyalkylen polyamines and cyanamides or water soluble bath thereof.

130469. Kureha Kegaku Kogyo Kabushiki Kaisha. A process for obtaining a chemical preparation for oral administration of birds and mammals except humans for controlling endoparasites. Comprises mixing a complex chemical compound of calcium salt of O-methyl-O(2,2,-dichlorovinyl phosphoric acid with O, O-dimethyl-O(2,2-dichlorovinyl) phosphate with a thermoplastic resin obtained by copolymerising 30—60 parts of a conjugated device; 70—40 parts of a copolymerizable monovinyl compound, and 0.5-5 parts of a cross-linking agent.

130470. Combustion Engineering, Inc. Fuel burner safety control circuit capable of the distinguishing between power interruptions and emergency operation conditions. Means are connected with power source for controlling the energization state of first and second time delay relays so that both time delay relays are energized on power interruption and during an emergency condition first time delay relay is de-energized and second time delay relay is energized.

130471. Void.

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130472. Council of Scientific and Industrial Research. Electrodeposition of shellac from aqueous systems. A process for the preparation of shellac coatings over mild steel, brass and zinc which comprises the covering of the metal by a film of shellac, wherein the shellac is solubilised in water into a colloidal system by dissolving in isoamyl alcohol by gentle heating and neutralising the acid groups of the shellac by triethanolamine, and the colloidal shellac is electrodeposited by using a direct current in the voltage range 20 to 200 volts, and the properties of the deposited shellac modified by the heat-treatment of the deposit in air in the temperature range of 120 to 260°C. for a period of 30 to 100 minutes.

130473. Void.

130474. Void.

130475. Void.

130476. Void.

130477. Imperial Chemical Industries Limited. Electrodes for electrochemical processes. (March 18, 1970). [Divided out of No. 120458, ante dated to March 20, 1969]. (1) Appplying to a film firming metal support a layer of an operative electrode material and (2) applying over said layer a coating comprising an alkyl titanate, and alkyl polytitanate or alkyl halotitanate and heating the coating and being characterised in that the sequence of steps (1) and (2) is carried out a plurality of times.

130478. Pfizer Corporation. Preparation of substituted phenoxy-alkylamines. (March 13, 1970). Comprises reacting alkali metal salt of ortho substituted phenol with a halide and the product obtained is reacted with a secondary amine.

130479. Void.

130480. Void.

130481. Void.

130482. Void.

130483. Yuasa Battery Company Limited. Leakproof battery and method of manufacturing the same. Characterised in that a composition of a mixture of thermoplastic synthetic resin powder with hydrated silica gel is disposed around a plate group, heated in saturated stream of over 100°C and solidified to form a liquid absorbable porous body integrally with the plate group liquid absorbable porous body being impregnated with an electrolyte and thereafter received in a battery container.

130484. British-American Tobacco Company Limited. Improvements relating to tobacco fillers. (March 6, 1970). Consisting of a combustible tobacco material and a filler material, the filler comprises calcium carbonate and sodium carboxymethyl cellulose, the ratio being at least 90:10 by dry weight.

130485. Oldham International Limited. A hydrogen oxygen recombining device on a secondary battery incorporating the same. Comprises an enclosure body a part at least of the outside of which is hydrophobic and gas permeable and catalytic means totally enclosed in enclosure body.

130486. Societe Fives Lille-Cail. Apparatus to cool cement clinkers or similar materials. Incorporating a combination of a rotating appliance which turns round an axis which is horizontal or at a slight incline and consisting of a cylindrical sleeve, one end of which is attached to the outlet of the furnace, its other end being closed, and having a series of cylindrical compartments arranged in the form of satellites about the rotating appliance.

130487. Monsanto Company. Method for vulcanizing rubber using cycloalkylsulfenamide containing vulcanization inhibitor. Comprising incorporating in the rubber, which contains an accelerating agent, in an amount of from 0.025 to 5 parts per 100 points of the rubber a cycloalkyl sulferamide and thereafter heating the rubber.

130488. Farbwerke Hoechst Aktiengesellschaft vormals Meister Lucius and Bruning. Process for the preparation of 3-[3′,4′-dichloro-G’-alkylphenyl]- $\triangle_2$ -pyrazoline derivatives. 3, 4-dichloro-6-methyl-acetophenone is condenced with sodium salt of benzaldehyde-2-sulphonic acid, and the product is refluxed with 4-hydrozinophenyl- β -hydroxy-ethyl sulphone.

130489. Farbwerke Hoechst Aktiengesellschaft vormals Meister Lucius and Bruning. Process for the manufacture of water-soluble monoazo dyestuffs. 4-ethoxy-1-aminobenzene-z-B-sulfatoethyl sulfone is diazotized and coupled with 2-acetamino-8-naphthol-3-6-disulfonic acid.

130490. Void.

130491. Continental Oil Company. Phace transfer catalysis heterogeneous reactions by quaternary salts particularly oxidation of olefins. [Addition to No. 114906]. Method of conducting heterogeneous ionic organic reactions to obtain oxidized products of olefin which comprises placing the reactants in a plurality of immiscible liquid phases with one of the reactants being located substantially entirely in a different liquid phase from the liquid phase in which a second reactant is located, and adding to the heterogeneous system, an organic quaternary salt and wherein one of the said reactants is an olefin and the other reactant is an oxidizing agent and a metal oxide catalyst is also present therein.

130492. Void.

130493. **The Indian Mechanisation & Allied Products Ltd.** Manufacture of drill rods. Comprising rolling a carbon steel bar to acquire a diamond section, projections or ribs formed extending longitudinally along the axis of the bar, fixing one end of the so formed bar and twisting the opposite end of the bar to the desired pitch.

130494. Void.

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130495. Kumares Dhar Chaudhuri. Hand clamp. Fixed member for supporting an object to be handled, a jaw articulated so as to pivot relatively to the fixed member, a lifting member articulated to the fixed member, a linkage being provided between the jaw and the lifting member.

130496. Void.

130497. Void.

130498. Imperial Chemical Industries Limited. Manufacture of bipyridylium salts. (December 23, 1968). [Divided out of No. 121906; ante-dated to June 19, 1969]. [Addition to No. 121906]. Comprising reacting an N-substituted pyridinium salt with a cyanide in a mixture of H_2° and an alcohol which is miscible with H_2° under basic conditions and oxidizing the product obtained.

130499. Imperial Chemical Industries Limited. Manufacture of bipyridylium salts. [Divided out of No. 121906; ante-dated to June 19, 1969]. [Addition to No. 121906]. Comprises reacting an N-substituted pyridinium salt with a cyanide under basic conditions separating at least a part of the product and oxidizing the separated product.

130500. S. Fischer. Devices for the manufacture of hollow bodies out of thermoplastic synthetic materials. There is provided a drive element which acts directly on control elements controlling the opening and closing movement of the mould halves and which with the help of intermediate devices, takes along in one or the opposite direction a support for the said mould halves.

130501. V. S. Kamboj. A door bolt. Wherein the bolt is provided with one or more extensions disposed transversely to the bolt so that in the locked position, the extension covers or overlaps the means to secure the base to the door panel.

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130502. Void.

130503. Void.

130504. Void.

130505. Joseph Lucas (Industries) Limited. Electrical switches. (March 10, 1970). Second bridging member is spaced from third set of fixed contacts, in the rest position of rod, by a distance greater than the distance by which stop member is spaced from first bridging member.

130506. C. W. Dames. Improvements in or relating to evaporation and distillation systems. The method comprising evaporating a part of the liquid flowing along a syphonic path in a space with a torricellian vacuum and compressing the vapour in heat exchange relationship with a coolant to condense it while maintaining the vacuum.

130507. Imperial Chemical Industries Limited. Process for the manufacture of napthalene derivatives. [Divided out of No. 90746; ante dated to November 11, 1963]. 1-chloro-3-(N-benzyl-N-isopropylamino)-2-3 propanol, is reacted with 1-naphthol.

130508. Imperial Chemical Industries Limited. Process for the manufacture of napthalene derivatives. [Divided out of No. 90746; ante dated to November 11, 1963]. 1-amino-3-(1-naphthoxy)-2 propanol hydrochloride is reacted with heptyl methyl ketone.

130509. C. A. V. Limited. Vehicle transmission control systems. Including switches in circuit with one or more solenoids respectively and means responsive to speed of the vehicle being provided to control operation of said switching whereby energisation of each solenoid can only occur if the road speed of the vehicle is below a predetermined value.

130510. Void.

130511. Ralstor Purina Company. Method of preparing vegetable protein food product and product obtained thereby. Comprising heating the slurry followed by physical working and retaining it under positive pressure and suddenly releasing the pressure.

130512. Ralston Purina Company. Enzyme modified protein process and product. Preparing aqueous slurry of protein containing material, adjusting the pH to about 5.7 to about 7.5, heating dynamically to temperatures above about 220° F, suddenly releasing the pressure to cool the slurry, rapidly reacting the cooled slurry with an enzyme and heating the reacted slurry.

130513. The Quacker Oats Company. A process for producing a urethane core binder and a foundry process employing the same. Comprising preparing a first package by forming a polymer from aromatic polyisocyanate with nondrying castor oil, preparing a second package comprising an admixture of high mol, weight hydroxycontaining material and an accelerator and admixing said first package and second package.

130514. Sandoz Ltd. Process for the production of nonwovens containing binders. Characterized by impregnating of nonwoven by binder preparation containing in addition to binder (a) polyvinyl alcohol (b) reacting cyclic methyl of compounds aldehydes and/or compounds yielding formaldehyde and (c) a metal or ammonium salt of a strong mineral acid and followed by drying and condensation treatment.

130515. Foster Grant Co., Inc. Catalytic hydrocracking process. [Addition to No. 119814]. Comprising passing a substantially sulfur free feedstock consisting of ethylbenzene distillation residue through a bed of hydrocracking catalyst mixed with sufficient hydrogen.

130516. Kaiser Industries Corporation. Production of metals from metalliferous materials. Comprises (a) establishing in a furnace system a metal purity control zone and a metal recovery control zone (b) maintaining both the zones a liquid metal phase containing the desired metal element and at least one more oxidizable element and a liquid slag phase containing an oxide of the desired metal element and an oxide of atleast one more oxidizable element, the liquid slag and liquid metal phase each blading in a respective district path extending between and including of the metal purity control zone and the metal recovery control zone.

130517. Void.

130518. Cabot Corporation. Process for the preparation of active carbon black. Contacting carbon producing feedstock with a stream of hot combustion gases flowing at an average linear velocity of at least 100 feet per second.

130519. Aziende Colori Nazionali Affini Acna S.p.A. Process for colouring petroleum derivatives and petroleum derivatives coloured thereby. Process for colouring liquid hydrocarbons deriving from the petroleum distillated employing water insoluble dyes in the form of liquid solutions in organic solvents having a dye content upto 70% by weight.

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130520. Kuttalam Rajagopalan Srinivasan and Srinivasan Umapathy. A new linkage to convert linear motion into circular motion with the use of free wheels. Comprising two free-wheels co-axially attached, one on each side of the wheel to be rotated, two rods capable of moving vertically, each of which is linked to one of the free-wheels by a chain.

130521. K. K. Xavier. Improvements in or relating to air rifles. Comprising a face plate with a screwed socked in which rifle barrel is fixed, and a second socket in face plate in which one end of a tube is fitted, tube being rotated by a knob fixed at its opposite end, a tubular magazine carrying a row of pellets in the tube, a pusher seated in the magazine and its threaded ends engazine the internal threads in the tube in such a way that on turning the knob the pusher moves longitudinally and delivers each pellet to a slot in the front face of feeder cum air chamber plate and a cradle in the slot by which each pellet is lifted and brought in line with barrel.

130522. D. P. Joshi and P. Singh. An electromagnetic door lock. Comprising a base, a solenoid secured to the base with armature connected central point of a link pivoted at one end to the base, the other end being connected to one end of a looking lever provided with a shot on one face, the other end of the lever being in contract with a spring resting on the base, a locking plunger movable in a guide in the base with one end being opposite the slot face of the lever and the other end engaging a locking plate, a knob fitted to a slotted link engaging at one end of the plunger and at the other end a spring and a mechanical lock linked to the plunger and operated by a key.

130523. Void.

130524. Rhone-Poulenc S. A. Process for the preparation of 3, 4-dihydroisoquinoline derivatives. Comprises reacting an amine with a 3, 4-dihydro-isoquinoline derivative or an acid addition salt thereof.

130525. Joseph Lucas (Industries) Limited. Electromagnetic horns. (March 14, 1970). Including a resilient diaphragm secured to a hollow body and a metal base plate secured to the body and having a contact breakes and a former carrying an electromagnetic coil the armature reciprocable within the coil being secured to the diaphragm.

130526. Amchem Products, Inc. 2, 6-dinitroaniline derivatives and plant growth regulating compositions thereof. (November 17, 1970). A primary amine is reacted with an appropriate 4-butyl, 2, 6, dinitro-phenyl chloride.

130527. Bayer Aktiengesellschaft formerly known as Farbenfabriken Bayer Aktiengesellschaft. Process for the production of copper and nickle phthalocyanines. Comprises reacting phthalic anhydride or a functional derivatives thereof or a ring system containing hertero atoms capable of forming a tetraazaporphine ring and substituted formaric acid maliec acid and/or succinic acid with copper or nickel salts, optionally in presence of nitrogen bases and catalysis.

130528. Dynamit Nobel Aktiengesellschaft. Improvements in or relating to the producfion of polyamides. To a dispersion in non polar organic solvent of diamino-diphenyletther and pyromethitic acid dianhydride a polar organic solvent which does not contain any functional group is added either continuously or batchwise.

130529. Siemens Aktiengesellschaft. A vector analyser for ascertaining the properties of a vector from two orthogonal components of the vector. Comprising two quotient formers to one input of each of which there are to applied signals proportional to respective ones of components, squaring means for squaring outputs of the quotient formers, comparison means for forming the difference between the sum of the outputs of the squaring means and a constant quantity, a controller connected to receive the output of the comparison means and having an output connected to the other inputs of the quotient formers and phase angle forming means connected to the outputs of the quotient formers.

130530. Hermann Papst. A method of production of lifting gases which lighter than air and airship for carrying out the method. Burning the gas consisting of hydrocarbons and the devices employed for the propulsion of the airship so as to obtain a reaction product consisting of water vapour and if desired producing hydrogen by cracking said gas.

130531. N. Y. Surovtseva, N. V. Shebaldin and A. A. Smirnov. Apparatus for the automatic impedance matching of the aerial and the feeder of a radio transmitter-receiver set. Comprising a controlled tuning reactive element in series with the aerial and connected to the feeder via a wide band r.f. low leakage inductance auto transformer, the input of the amplitude detecto is connected to the aerial, the input of the phase discriminator is connected to that terminal of the reactive element which is connected to the feeder.

130532. Gosudarstvenny Nauchno-Issledovatelsky Institut Stroitelnykh Meterialov I Izdely and Krivorozhsky Ordena Trudovogo Krasnogo Znameni Metallurgichesky Zavod Imeni Lenina. Device for treating molten slag to produce slag material suitable for making building material. Comprises a receiving funnel fed with molten slag having inputs provided with a hydromonitor heads.

130533. Atlas Copo Aktiebolag. Improvements in tunneling machines and the like. Comprising a rear and a front frame portions, tunnel wall engaging shoes on the two frame portions, at least one power jack operable on a first axis transverse to the tunnel axis to move one of the front portion shoes, at least one power jack operable to move one of the rear portions shoes double acting power means for moving one of the portions in non-gripping position longitudinally of the tunnel relative to the other portion and at least one cutter head with motor driven rotary cutter movingable on the front portion on a second axis and transverse to the tunnel axis and parallel to offset from the first transverse axis.

130534. Void.

130535. G. R. Mansukhani. A composite stopper. Comprises a lower member adapted to press fit into the neck of the bottle and having a central recess provided with an upright engagement member, an upper member consisting of a cap having a coaxial orifice adapted to engage the engagement member.

130536. Firbeglass Limited. Aprocess for the uroduction of phenolformaldehyde resin foams. A hardening agent whose viscosity can be adjusted to be of the same order as that of the resole and which can polymerise with the resole, is employed.

130537. Sandoz Ltd. Azo compounds of low solubility in water, their production and use. Diazotising the corresponding nitroamine and thus coupling the same with the corresponding coupling component containing the group-O-alkylene—R_3.

130538. Void.

130539. Cardwell Westinghouse Company. Improvements in hand brake for railroad cars. Comprises a stop arm pendantly carried by the drum, lug means to engage the stop arm and stop means fixedly carried by the housing to limit unwinding overtravel of the drum in the unwinding direction.

130540. Void.

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130541. Council of Scientific and Industrial Research. Microbiological process for the preparation of salicylic acid from naphthalene. Comprises cultivating a species of facteria belonging to the genus *Pseudomonas* in an aqueous nutrient medium of pH 6-7.6 containing napthalene ammonium sulphate, potassium hydrogen phosphate, magnesium sulphate, potassium chloride, sodium sulphate, etc.

130542. Orissa Cement Limited. Improved roof construction of furnace. Wherein the shaped refractory bricks are distributed an interval in such a way that from any point on the granular refractory mass, there is present at least one brick at a distance of not more than 18 inches.

130543. Orissa Cement Limited. Improved refractory articles. Comprising adding 2 to 15 per cent by weight of mono and/or diammonium phosphate in solution or solid form to granules of said siliceon materials with or without the addition of organic and/or inorganic binders and with the optional addition of additives and intimately mixing the ingredients.

130544. Void.

130545. Void.

130546. M. S. Pathan. The holder for hot pot. Comprising an upper lip and a lower one thin socketed-slotted hinged portions aligned together to allow a hinge pin to pass therethrough. the other end of this pin is rivetted or otherwise joined.

130547. Ruti Machinery Works Ltd. Guide arrangement for weft thread inserting elements in a weaving loom. [Addition to No. 116044]. Characterised in that the holes have extensions for pressing the inserting elements there into only under a force greater than the force applied by the drive means at right angles to the direction of movement of the inserting elements. but less than the maximum force that the drive means is capable of applying.

130548. National Distillers and Chemical Corporation. Process for purification of vinyl acetate. Vinyl acetate is reduced distilled in the presence of an active hydrogen containing compound having the ability during the distillation to after the relative volatility of vinyl acetate to ethyl acetate to at least about 1.5.

130549. Void.

130550. Void.

130551. Council of Scientific and Industrial Research. A new process for separation of the dimethyl and monomethyl components from a mixture of dimethyl dichlorosilane and methyl trichlorosilane. The mixture is esterified and distilled in a continuous manner by the gradual addition of dry methanol to remove the dimethyl component.

130552. Council of Scientific and Industrial Research. A microreactor of new design for reaction gas chromatography, incorporating dual channels. Comprises of precolumn type microreactor provided with sample injection parts and gas inlets, each bearing a sample injection part and gas inlet one containing reacting material or catalyst coated cover a size graded support and the other containing the support only and the two channels being connected together at the lower ends making a common exit to the analysing gas-chromatographic column.

130553. Union Carbide Corporation. Liquid-gas contacting tray. Characterized by at least two adjacent band member with a first upstream band member having relatively lower slot density and a second downstream band member having relatively higher slot density, the band member with a down stream edge at liquid outlet having the highest slot density and the average slot densities up stream and down stream the tray ransverse centeline being such that $\eta^2\eta^2$ is greater than 1 and less than 5 where $\frac{n\text{-}fs}{fs\,Cs+fp\,cp}\,Cs$ in which, fs represents total area of the slot openings fp represents total area of the normal fixed size openings, Cs represents orifice coefficient of the slots cp represents orifice coefficient of the normal fixed size opening and η^1 and n^2 are the tray parts up stream and down stream of the tray transverse center line.

130554. Joseph Lucas (Industries) Limited. Electrical switches. (March 17, 1970). Plungers acting on opposite ends respectively of bridging member to more the opposite ends of said bridging member independently of one another to operate a pair of switches respectively.

130555. Porvair Limited. Water vapour permeable flexible polymer sheet material having glossy surface and process of preparing the same. (March 12, 1970). A process for making a material characterized in that it comprises providing a water vapour permeable flexible sheet material, such as herein described, affording a free surface of a microporous surface layer consisting of solvent soluble polymer, treating the said microporous free surface of the solvent soluble polymer with a solvent in which the said polymer is soluble so as to consolidate the said surface and form a thin consolidated surface zone at the surface of the said microporous layer followed by laying a thin glossy film, such as described herein, which is free of voids over the thin consolidated solvent treated surface and applying heat and pressure through the said thin glossy void free film to the solvent treated surface to cause further consolidation of the water vapour permeable flexible sheet material and then stripping off the thin glossy void free film.

130556. Fisons Limited. Device for dispensing a medicament in finely divided powder form. (March 25, 1970). Comprises a hollow elongate housing having passageway to permit passage of air through the device, means capable of forming air through the passageway from a second end thereof, mounting means forming part of the passageway and adapted to receive a container and perforating means for reciprocating movement along the long axis of the housing.

130557. Instrumentation limted. Logic tester. Comprising an outer casing of opaque material having a prove tip at one end a printed card containing the circuit and a low voltage filament camp connected to the circuit, said card being housed in said casing and said lamp being disposed in a transparent or cut-out portion if the casing, said circuit having connection with said probe tip and two supply leads.

130558. The Goodyear Tire & Rubber Company. Vulcanizable rubber containing retarder for inhibiting premature vulcanisation. A vulcanizable rubber containing a premature vulcanization inhibiting agent prepared by reacting a sulfonyl chloride with an alkali metal salt of an appropriate sultam, sulfonamide or sulfamide.

130559. Atlas Chemical Industries, Inc. Process for producing polymer powder from a still rubbery aqueous gel. Comprises cutting of a stiff rubbery aqueous polymer gel and contacting the cut gel with an organic liquid, which is miscible with water and non-solvent for polymer thereby separating polymer having at least 50 weight solids from waterorganic liquid solution.

130560. Aquavoir Holdings Company S. A. Unit for collecting rainwater. Comprising a collecting vessel, a deck covering whole surface area of the vessel and closing mouth thereof, said deck sloping inwardly to one orifice, the wall of the collecting vessel below the deck being sealed hermetically.

130561. Wendell E. Dunn, Inc. Improved process for beneficiation of titaniferous ores. Comprises contacting a bed of ore in a reactor at 700 to 1090° C with at least one carbon monoxide-chloride cycle comprising passing carbon monoxide through the ore bed for 5—30 minutes and chlorine for 5—30 minutes while withdrawing vaporized metal chlorides from the reactor.

130562. Void.

130563. Void.

130564. P. Zimmer. Improvements in or relating to a roller squeegee. The cross-section of the teeth of the roller squeegee has an inclination diverging from the radial symmetric direction.

130565. L. G. Hudson. A runner for drayer support units. (March 16, 1970). Comprising a channel section member with one limb terminating in a tongue space from the base by a slot, each end of line including a cranked arm of 'L' shaped.

130566. Bassani S.p.A. Electric switches. Includes single-piece member providing fulcrum surface for a rocking control lever and for a movable contact holder, and providing means to limit the travel of the control lever and providing means to locate fixed contacts relative to the movable contact holder.

130567. Bassani S.p.A. Electric sockets. Includes a shutter having inclined sufaces for engagement in use with the pins of a plug, and means to prevent displacement of the shutter except when two plug pins of the appropriate size are inserted simultaneously.

130568. Chadive Raia Reddy. Improvements in or relating to torque adjusters between the prime mover and the load. Comprising an epicyclic gear system having on one side an input shaft connected to sun gear and on the other side an output shaft integral with planetary cage, and two electrical machines one of which functions as shunt generator/motor and the other functions as a series generator/motor.

130569. F. Hoffmann-La Roche & Co., Aktiengesellshaft. Methylene-dioxyphenyl derivatives, process for their preparation and pest control agents containing the same. 2-methyl-2-[(3, 4-methylenedioxy)-phenoxy]-hept-2-ene is hydrogenated.

130570. F. Hoffmann-La Roche & Co., Aktiengesellschaft. Phenyl derivatives, process for their preparation and pest control agents containing the same. P-hydroxybenjoic acid methyl ester is reacted with 2-bromo-6-methylheptane.

130571. Hokko Chemical Industry Co., Ltd. Process for the manufacture of new formadine derivatives. Comprises reacting an aniline derivative or a salt thereof, a formamide derivative and a halogenating agent.

130572. Colorant Schmuckstein GmbH. Brilliant. Having the number of facets in a ring in an odd number whereby the angles included between the rear facets and the Rondist plane are selected such that emerging light is dispersed in a fan out angle of from 1°20′ to 12°57′.

130573. Saseb Aktiengesellschaft. Improvements to locks for car doors. Comprising a forked catch elements a stiking plate comprising plastic body, a metallic plate having tubes plastic body including a tongue backed up by a resilient body.

130574. Oy Tampela AB. Arrangement for unlocking a tensioning member on guns with recoil brake. Characterised in that a device separating tensioning member, tensioning arrangement, device having lever arm with tooth, a projection of stationary mounted part provided the free end of a pawl swingable in front of a projection releasing member under action of a spring.

130575. Cassella Farbwerke Mainkur Aktiengesellschaft. Process for preparing water-insoluble azo dyes. Chartecrized in that methly-4-benzoyl-benzene-(1-azo-oc) acetoacetate is condensed with cyno-acetic acid methylamide.

130576. Snam Progetti S.p.A. Process for preparing aluminium compound. Comprises reacting in the presence of an ethereal solvent a diamine or an acid addition salt of the diamine with an aluminium hydride.

130577. Standard Telephones and Cables Limited. A method of and an apparatus for marking an electrical conductor. [Addition to No. 126299]. Comprising a nozzle means for pumping ink through the nozzle, an electro-dynamical ink deflection system and an annular electrode.

130578. Ciba-Geigy AG. Method for transforming vesicular images. Comprises contacting the bubble containing image material with at least one solvent capable of penetrating the image material said solvent being or containing a non-scattering image producing substance of said solvent treatment being followed by another contract treatment with an image producing substance.

130579. British Soya Products Limited. A process for the production of edible vegetable protein products. (March 16, 1970). Preparing a mixture of vegetable proteinaceous material, a conditioning agent and water to the consistency of fine damp crumb, forming the desired shape and causing coagulation of the crumb.

130580. Walchandnagar Industries Limited. Jyoti Prasad Mukherji, Anil Chandra Chatterjee and S. Gangavati. An improved system for heating massecuite and like viscous substances. Comprising in combination a container, a heating element, a stationary inlet pipe connected to the heating element, a stationary outlet pipe and a vacuum source.

130581. Nippon Kokan Kabushiki Kaysha. A method of rough-rolling slab to a particular with and an apparatus therefor. Comprises feeding the slab between a series of vertical cylindrical edging rolls and horizontal rolls, and between at least one pair of vertical edging rolls having calibered recesses around their peripheries.

130582. Speno International S. A. Device for grinding the long undulation waves of railway rails. Comprising grinding wheels or elongated rigid frame longer than the longest undulation of the rail, the frame being oriented in the direction of respective rail and driven along the rail supported by suspension so that the resultant of driving force on the frame and of the force applying the grinding wheel passes through or close to the centre of the area of contact of the grinding wheels with the rails.

130583. Void.

130584. N. V. Philips Gloeilampenfabrieken. A distribution valve for an evacuating and filling device. Characterised in that the flat sides of the circular plates of the valve have on or more circumferential grooves which communicate through an inlet duct with a gas container and through an outlet duct to a space having a lower pressure than the container.

130585. Void.

130586. N. V. Philips Gloeilampenfabrieken. Cathode-Ray tube. Characterised in that an astigmatic lens element is present in the electron gun in the region of the second and the third grid.

130587. Siemens Aktiengesellschaft. Improvements in or relating to terminal seals for insulated cables. Comprising a multipart mould member having funnel-shaped inner portion, central portion of elastomeric insulating material, cap from outer portion and elastomeric filling compound.

130588. Cotton, Incorported. Process for treating cellulosic fiber containing material. Comprises applying to the material a solution comprising polymer-forming compound possessing reactive N-methylolgroups, exposing the material while swollen by moisture at 80°C to a reactive atmosphere comprising formaldehyde vapour and a gaseous acid, applying to the material a latent solid curing catalyst and drying.

130589. Nereo Chiarotto. Composite yarns, fabrics and non-woven fabrics prepared therefrom having fire resistant properties. Being formed from a mixture of glass fibres and of at least two fibres selected from a group of synthetic and/or natural fibres.

130590. Farbwerke Hoechst Aktiengesellschaft vormals Meister Lucius & Bruning. Process for the manufacture of water-insoluble yellow monoazo dyestuffs. Characterized by coupling diadotized 2-aminoterphthalic methyl ester-(1) (2′ 5′-dichloroanilide)-(4) with 5-acetoacetylamino-benzimidazolone.

130591. Continental Oil Company. Apparatus for plating aluminium on wire. Comprising a bath of liquid plating solution means forming heating zone in a portion of travel of elongated metal member in bath to deposit the plating metal, means for displacing plating solution from around entry end of metal member in the entry end of heating zone with inert gas.

130592. Knorr-Bremse GMBH. A compressed air braking equipment for rail vehicles. Comprising a control valve in the shape of a three way cock for regulating the pressure build up of a brake cylinder which is provided with a piston system that is acted upon by the pressure in the main cir line against the pressure in the control chamber. A voluntarily switchable change over device changes the pressure within the control chamber.

130593. Void.

130594. Void.

130595. B. N. Bhat. Arecanut dehusking machine. Comprising two cast iron wheels moulded with hard rubber teeth rotating in opposite direction at a ratio 1 : 4, a hopper, lever guide wheel, rocker arm loaded with two springs, separating drum, blower and driving motor.

130596. Void.

130597. Void.

130598. Dr. D. G. Takte. Process for the oxidation of mono-olefins using indium oxide catalyst doped with halogen at its surface. Comprises contacting a gaseous feed of mono-olefin and oxygen with a solid catalyst comprising indium oxide doped with volatile inorganic or organic halogen containing compound.

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130599. Void.

130600. Void.

130601. Eli Lilly and Company. A process for preparing 1-substituted-2 (1, 1-difluoroalkyl)-1H-imidazo (4, 5-B) pyridine compounds. Characterized in that 5-chloro-3-nitro-2- (trifluoroacetamido) pyridine in hydrogenated with hydrogen in ethonal containing palladium on carbon to obtain 6-chloro-1-hydroxy-2-(triflouoromethyl)-1H-imidazo (4, 5-b) pyridine.

130602. Binks Bullows Limited. A nozzle for use in a spray gun. Comprising an outer casing and an inner and piece deforming there between an annular passageway in communication with a cavity in the rear of the end piece through one or more parts.

130603. Imperial Chemical Industries Limited. Process for the manufacture of decorative floorings and decorative floorings so produced. (March 18, 1970). Comprises applying to the area over which the flooring is to be laid composition having a hydraulic cement, a filler in the form of fragments or coarse particles, water and an organic polyisocyanate allowing the composition to harden and then grinding.

130604. Void.

130605. British Insulated Callender's Cables Limited. Improvements in or relating to flexible stranded bodies such as overhead electric conductors. Comprising at least two layers of metallic elements and partly fitting each of some or all of places between adjacent metallic elements of atleast one of the layers a preformed elongate member of non-metallic resilient material which is compatible with the said elements.

130606. Void.

130607. Void.

130608. Bekum Maschinenfabriken GMBH. Blow Molding apparatus. Having a combination comprising a mold for forming a hollow article having a main and surplus portion and means for in said mold for severing the surplus portion and for advancing the means relative to the mold.

130609. Pressure Cookers and Appliances Private Limited. Improvements in or relating to safety valves for pressure cookers. Comprising a tubular body adapted to engage the valve tube fitted on the cooker lid a container body, a weighted material, a valve plug and a cap on the tubular body.

130610. Pressure Cookers and Appliances Private Limited. Pressure cookers and more particularly the handle bar that holds the lid. Characterised in that the handle is made of an Al alloy in which copper content is about 3 to 5 per cent and the handle is given a small curvature.

130611. Pressure Cookers and Appliances Private Ltd. Spring clamp for pressure regulating devices of pressure cookers. Characterised in that the clamp is made of a composition consisting of a carbon 0.08—20 per cent Manganese 2.00 per cent maximum chrominum 16 —18%, Nickel 6.00—8.00 per cent the balance being iron.

130612. Void.

130613. L. Elsbett and G. Elsbett. Improved piston for injection-type internal combustion engines, in particular diesel engines. Characterised in that an intermediate member having zones of constant or different thermol conductivities is provided between an insert in the combustion chamber and the body of the piston.

130614. R. K. Dewan. An improved equipment for filing papers. A hollow prism of triangular cross section made of flexible material in which a gap of a predetermined width is provided on one of the sides of the prism.

130615. Void.

130616. Brown Boveri and Company Limited. Apparatus for monitoring the air gap in rotary electrical machines. Comprising a plurality of probes sensitive to magnetic field and mounted on the stator, pairs of the probes being connected up in a bridge circuit.

130617. Saint-Gobain. A vehicle windscreen. Comprising an internally facing a cellulose ester sheet, an intermediate sheet of polyvinyl butyral, and an external facing silicate glass sheet, being adhered to one another.

130618. Void.

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130619. Void.

130620. N. E. Pochkhanawala. Improvements in or relating to mufflers or exhaust silencers for internal combustion engines. Consists of two pipe sections of equal or unequal diameters, each carrying perforations of equal and unequal dimensions of any geometrical pattern extending from its middle upto its closed end.

130621. Electric Power Storage Limited. Improvements in process for making position electrodes for lead acid batteries. (March 19, 1970). Comprise pasting on a lead alloy grid a composition containing sulphuric acid, amorphous silica and active material, curing and drying the pasted plate.

130622. Void.

130623. Imperial Chemical Industries Limited. Vessel corrosion indicator. (March 19, 1970). Provided with a plurality of holes each containing a probe extending from the outside of shell, towards and almost upto the inner lining means for compang the conductivity between probe and shell with preselected reference value and means for actuating an alarm signal if and when the productitity exceeds the prescribed preference value.

130624. C. A. V. Limited. Liquid fuel pumping apparatus. (March 18, 1970). There is engaged with the piece on the side thereof removed from the shuttle one end of a slidable pin, the pin bearing at its other end, upon the contoured, surface of a slidable member, pressure responsive means to effect adjustment of said member in accordance with pressure in the inlet manifold.

130625. Imperial Chemical Industries Limited. Improved smoking mixture and a method of producing the same. (March 23, 1970). Comprising a solid organic combustible material as smoke producing fuel, a film forming agent or binder, and a harmless inorganic filler

130626. Bayer Aktiengesellschaft, formerly known as Farben-fabriken Bayer Aktiengesellschaft. A process for purifying waste gases from the production of ammonium nitrite and reusing them for the production of ammonium carbonate. Comprising washing the waste gas consisting of carbon dioxide, ammonium nitrate and ammonium nitrite with an aqueous solution of ammonia in the presence of additional carbon dioxide so that the ammonia content of the end gas is less than 0.1% by volume.

130627. British Insulated Callender's Cables Limited. Improvements in electric cables. Comprising single or multiple wire conductor, the or each wire consisting of an inner part of non-heat treatable alummium alloy and bonded thereto an outer part of copper or copper alloy.

130628. Kabushiki Kaisha Ichikin Kogyosha. Apparatus for Treatment of cloth. An inclined trough shaped passage for liquid flow is provided along the bottom surface thereof with spaced plural ridges acting against the flow of liquid.

130629. Amsted Industries Incorporated. Dipper tooth assembly. Comprising corresponding pairs of converging surfaces in the nose and cavity.

130630. I. Y. Gorodetsky. Mass transfer column-type apparatus. Comprising a packing built up by disks disposed one above another across the shell of the apparatus and having orifices furnished with guide vanes inclined in relation to disk plane, means for setting the working media and said disks in mutual reciprocating motion, and working media inlet and outlet connecting pipes, provision being made to locate the slit shaped clearances between the apparatus shell wall and adjacent disks on opposite of the disks.

130631. Metallegesellschaft Ag. and Vereinigte Aluminiumwerke AG. Process of removing hydrogen fluoride. Characterised in that the gases which contain hydrogen fluoride are injected as a fluidising gas into a fluidized bed reactor at such a velocity that they cause the solids to form a very losse fluidized bed in which the solids concentration decreases upwardly, and the solids are mainly discharged upwardly.

March 19

130632. The Bendix Corporation. Automatic beat frequency oscillator switch for an airborne automatic direction finder. Having an airborne automatic direction finder for energizing a normally unenablized beat frequency oscillator, means for sampling signals received by said direction finder and means responsive to said sampled signals.

130633. E. M. Roth. Brush. Having a body provided with a passageway extending longitudinally through it, a handle member longer than the passageway, said handle being slidable to two different positions, means for releasably forming said handle in position, means to stop rotation of the handle.

130634. Essex International, Inc. Current control apparatus and methods of manufacture thereof. Comprising a unitary body having a first portion formed of electrically non-conductive resilient compressible material, and at least one other portion of like material having discrete electrically conductive particles dispersed therethrough, and making electrically conductive path in response to compression thereof.

130635. Joseph Lucas (Industries) Limited. Electrical switches. (March 20, 1970). Comprising first and second hollow body parts, a conductive plunger mounted in first body a contact member carried by second body, resilient means acting on said plunger. said first and second body part being formed with matting screw-threaded portions.

130636. Agfa-Gevaert N.V. A. Method of mixing and/or making to react substances by mixing in a liquid medium. A plurality of liquids that contain ingredients are continuously introduced into a passageway wherein over the whole transverse cross-section the infed liquids are maintained in continuous flow away from the feed point or feed points and within which turbulence is created.

130637. Farbenfabriken Bayer Aktiengesellschaft. Production of titanyl sulfate solutions. Hagnetically separating iron from ground slag with drawing from the sulfuric acid containing solution of titanyl sulfate a portion thereof, adding to the withdrawn portion the magnetically separated iron, whereby the reaction between iron and sulfuric acid serves to reduce titanium IV in the withdrawn portion to titanium (iii), the relative proportions of iron and titanyl sulfate solution being such that the titanium (iii) concertration in the resulting reduced solution is from about 50 to 90 grams per liter calculated as TiO_2, and adding said reduced solution to the sulfuric acid-containing titanyl sulfate solution, whereby any iron II in said solution is prevented from going to trivalent state.

130638. Void.

130639. Void.

130640. Void.

130641. Void.

130642. Union Carbide Corporation. Allyl chromium catalysts and process for preparing the same. [Divided out of No. 124442; ante-dated to Dec. 15, 1969]. Reducing at least a portion of a II allyl chromium (III) complex to the chromium (II) volume complex on a high surface and a support.

130643. Dumont Aviation Associates. Self-locking screw. Characterising maximum width of the groove between two internal surfaces exceeds distance between centre plane of thread and its original flank measured along pitch line.

March 20

130644. Stein Industrie. A heat-exchanger module. Tubes are subdivided into two half bundles each disposed on a square lattice with an identical pitch on each side of a principal lattice line along which the two lattice are relatively displaced by one half pitch and wherein said two lattices are disposed in interjacent relation at the level of the expansion bends.

130645. Sobico Inc. Synthetic material textile filaments. Comprising an elongated core, a plurality of ribs around the core, each rib extending along the core and a plurality of notches in the ribs distributed along the filament.

130646. Imperial Chemical Industries Limited. Improved smoking mixture. (March 23, 1970). Comprising tobacco and protein, the amount of protein to tobacco being in the range 1:2 to 1:50.

130647. Bayer Aktiengesellschaft. A process for separating magnetisable particles. Improvement comprising pneumatically separating from ground product a fraction of sizes 5 to 400/u, separating this fraction into fine iron reduced particles of sizes 5 to 12/u and coarse iron enriched particles of sizes 30 to 400/u collecting fines, subjecting coarse particles to magnetic separation and returning the balance non-magnetizable particles for further grinding.

130648. F. Plasser. Improvements relating to mobile machine for levelling and tamping railway tracks. An undercarriage, a wheel axle or a bogie sub-frame of track lifting means arranged between two or groups of tamping tools displaceable relative to one another longitudinally of the track, tamping tools following front tamping tools arranged between two undercarriages.

130649. Takeda Chemical Industries, Ltd. A process for producing a new thermo-gelable polysaccharide. Alcaligenes faecalis var. myxogenes strain NTK-U is cultivated aerobically in the presence of assimilable carbon and nitrogen sources.

130650. Cefilac. Process for the manufacture of seamless steel tubes. (September 24, 1970). Including cutting bars into billets heating and deforming the billets into round hollow blanks, and extruding the blanks into long tubes with desired wall thickness.

130651. Cefilac. Improvement in the hot piercing of metal billets. (November 24, 1970). Comprising disposing the billet in a piercing press container having at the end from the piercing tool a ring having a frusto-conical bore, expanding the billet bore by passing the piercing tool through the bore, transferring the heated billet into the container of an extruction press.

130652. British Steel Corporation. A method of making rail steel. (March 20, 1970). Hot rolling into a rail section steel containing a grain refining element and a hardening element and subjecting the rail section to a fine graining process to produce in the steel a ferrite grain structure finer than A.S.T.M. 8.

130653. Diamond Sharmrock Corporation. Non-passivating barrier layer electrodes. Electrode comprising a conductive supporting substrate, a conductive oxygen impermeable barrier layer, a conductive electrocatalytically active electrolyte resistant solid solution type outer coating.

130654. Void.

130655. Void.

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130656. C. D. Ghai and V. K. Ghai. Dish washing machine. Comprising a washing cabinet fitted with an oscillating conveyor, means to prevent back-sliding of the trays on said conveyor, the cabinet being divided into two zones, first or cleaning zone and second or rinsing zone, means to pump and recirculate cleaning water and means to pump clean water.

130657. Void.

130658. Imperial Chemical Industries Limited. Improved smoking mixture. (March 23, 1970). Comprising carbohydrate, modified carbohydrate or aldol condensation product as smoke producing fuel, protein and a conjugated isoprenoid or derivatives thereof such acids or esters.

130659. Imperial Chemical Industries Limited. Improved smoking mixture. (March 23, 1970). A smoking mixture comprising an organic combustible material as smoke-producing fuel and protein the amount of protein to smoke-producing fuel being in the range 1 : 1 to 1 : 60.

130660. Imperial Chemical Industries Limited. Improved smoking mixture. (March 23, 1970). A smoking mixture comprising tobacco, protein and a conjugated polyunsaturated isoprenoid or derivative thereof such as acids or esters.

130661. Imperial Chemical Industries Limited. Improved smoking mixture. (March 23, 1970). [Addition to No. 130659]. Comprising as smoking fuel carbohydrate, modified carbohydrate or aldol codensation product, protein and phenyl acetic acid and/or 2-phenyl ethanol.

130662. Imperial Chemical Industries Limited. Improved smoking mixture. (March 23, 1970). Comprising tobacco in admixture with a harmless inorganic binder.

130663. Imperial Chemical Industries Limited. Improved smoking mixture. (March 23, 1970). Comprising tobacco and a conjugated polyunsaturated isoprenoid or derivative thereof, the ratio being 1 : 50 to 1 : 750.

130664. Void.

130665. Void

130666. Harbans Lal Malhotra & Sons Private Ltd. Process for the manufacture of shaving blades. Razor made of carbon steel or hardenable stainless steel having a coating of tungsten on a surface or surfaces thereof.

130667. Harbans Lal Malhotra & Sons Private Ltd. Razor blades. Applying a layer of silicon resin lacquer, curing same, stropping the cutting edges, applying thereafter a coating of polytetra Suoroethylene and finally sintering the blades to a temperature between 385 to 450°C.

130668. Void.

130669. Triatex International AG fur Textile Forschung Und Entwicklung. Method and apparatus for finishing cellulose-containing textile materials and textile materials thus produced. Comprising the steps of providing textile material which is to be treated, applying to such textile material one treatment bath with one finishing agent, controlling the amount of treatment bath and then partially drying the treated textile material.

130670. Cefilac. Improvement in the extrusion of seamless tubing. (November 5, 1970). Whereby the billet in first deformed into engagement with the container wall then with the leading part of the mandrel, and then with the remainder of the mandrel, and finally is extruded.

130671. Cefilac. Improvement in the hot piercing of metal billets. (November 25, 1970). Comprising heating the billet to deformation temperature and inserting it into the container of a piercing press equipped with a conical tool; flaring the upper end of the pilot bore with this tool, withdrawing the tool, placing lubricant and expanding the flaried cylindrical pilot bore to the desired diameter.

130672. Void.

130673. Void.

130674. Swiss Aluminium Ltd. Processes and apparatus for controlling the concentration of aluminium oxide in electrolytic cells for the production of aluminium. Wherein the melt is kept in direct contact with subsidiary fluoride melt highly concentrated or saturated in aluminium oxide and out of contact with liquid aluminium and not substantially subjcted to electrolysis, all the feeding of the cell with aluminium oxide being done to subsidiary melt.

130675. L. Danieli. A device for removing, restoring, replacing or changing a tundish nozzle. Characterized by two downardly projected pins perforated at the end, a detachable support plate for tundish nozzle having two open notches for received the pins and two keys for tightening the support plate against tundish bottom.

130676. Void.

130677. Madhusudan Bhogilal Panchal. Novel louvers and multi-purpose revolving louvre windows. Comprising angle member whose two flanges are disposed at an obtuse angle to each other, one of the flanges at its free edge being mounted on a rod member, ends of which rod project outside the angle member and are freely rotable in opposing vertical members of a framework.

130678. Void.

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130679. V. M. Damle. Improvement in or relating to fermentation equipment of an alcohol distillery. An improved fermentation tank fitted with a device comprising of a cylindrical steps shell having, a conical or dome shaped umbrella, baffle plate, gas out let nozzle a circular tray having risers, bubble/tunnel caps with plain serrated notched edge towards the periphery, liquid changing or draining arrangement, further supported by stiffeners from below, the lower end of the shelll being firmly fitted to the sealed roof of the fermentation tank, the entire arrangement being such that alcohol entrained carbondioxide gas evolved during the process of fermentation has to pass through the risers on the tray from below where alcohol is recovered in the scrubing liquid and carbondioxide gas is let-off to the atmosphere.

130680. Void.

130681. Westinghouse Electric Corporation. Centrifugal fan. In the direction toward the form wheel inlet, inlet cone is first converging and then flaring outwardly to terminate adjacent the edge of side plate difining opening.

130682. (1) Lawrence Earl Leas, (2) Robert Lamar Leas and (3) Cecil James Johnson. A method of producing high energy sulfur-free gas from high sulfur-content coke. (January 14, 1971). Reacting carbondioxide with high sulphur content coke, removing sulphur containing carbon monoxide gas thus produced to a metal oxide zone, said zone containing a metal oxide of variable valence, reacting said sulphur containing gas with said metal oxide in an exothermic reaction whereby carbon monoxide is converted to carbon dioxide.

130683. L. E. Leas, R. L. Leas and C. J. Johnson. A method for generating high temperature gas. (January 12, 1971). Comprises alternately oxidizing and reducing cobalt oxide, the oxidation resulting from the reaction of metal oxide in a lower valence state with an oxygen containing gas to oxidize the metal oxide to a higher valence state and reduction resulting from the reaction of higher valence metal oxide with a combustible fuel to generate high temperature gases and wherein the alternate oxidation reduction reactions are conducted in single or multiparallel trains or single or multiple-stage series, thereby rendering the generation of high temperature gases continuous. .

130684. L. E. Laes. R. L. Leas and C. J. Johnson. Method for the gasifying and desulfurizing of char, coke and coal and for the production of desulfurized superheated carbon dioxide. (January 12, 1971). Gasifying coke, coal or other residual carbon by using of cobalt or similar reactive oxide with use of air as regenerative fluid by superheating carbon dioxide which in turn gasifies carbon to carbon monoxide.

130685. Gevaert AGFA N. V. Process for producing polymeric film. Characterised in that to improve the adherence of extruded polymeric film to the quenching surface, electrosatic charges are deposited by corona discharge on that surface of the film which contacts the quenching surface.

130686. The Broken Hill Pty. Co. Ltd. Improved coated metal product and process for coating metal surfaces. Article of zinc or alloys thereof having a coating of metallic chromium of .02 milligram thickness and a film of chromium oxide having a thickness of at least 0.01 milligram.

130687. Void.

130688. Marston Excelsior Limited. Improvements in or relating to electrodes. (March 25, 1970). Comprising taking an electrode sub-strate of titanium, etc. applying coating composition containing one precious metal, firing to provide an under-layer and electroplating on precious metal in the under-layer.

130689. Siemens Aktiengesellschaft. Circuit arrangement for the step by step control of electric motors. Characterised in that there is provided a two-step action current controller with each transistor switching circuit for connecting to and disconnecting an exoiter winding of the motor from the supply.

130690. Farbwerke Hoechst Aktiengesellschaft vormals Meister Lucius & Bruning. Process for the manufacture of metal-containing azo dyestuffs. Characterized by esterifying the metal complex dyestuffs containing β hydroxy ethyl-sulponyl groups with agents yielding sulphuric anhyride in the presence of tertiary organic bases.

130691. Metallgesellschaft. A. G. Mixing and comminuting apparatus. An well like housing containing at least two beater rolls which are disposed one under the other and have parallel axes of rotation and by two longitudinal walls which are parallel to each other and to the axes of rotation of the beater rolls.

130692. Novosibirsky Metallurgichesky Zevod Imeni A. N. Kuzmina. Device for automatic thickness control of rolled strips. Comprising at least one hydraulic power cylinder installed between the supports of the working rolls, another hydraulic cylinder serving as a damping mechanism whose piston is fixed while the strip is passing through the roll stand.

130693. Leningradsky Metallichesky Zavodimeni. Form tool and method of grinding its flank. With a cutting edge whose relief angle an measured in the plane normal to the profile of said cutting edge depends on the angle ζ0 between the direction of cutting feed and the tangent to the profile of the cutting edge and is formed in the formula.

$$\text{Sin } a_n = \frac{K}{(a_{\max} \quad \sin \zeta)\, 0.3.}$$

130694. S. Y. Rubinshtein. M. A. Babin. A. L. Gutman. V. A. Presman. M. K. Razumovsky and N. G. Shabunya Exhaust noise machine of I. C. engine. Comprises a shell partitioned inside into chambers and produced with gas inlet and outlet pipes, a perforated tubular elements located inside said shell, at least two laterial baffles with vanes inclined towards them said vanes are in close proximity to said element.

130695. General Electric Company. Improvements in or relating to heater roll temperature sensing apparatus. Comprises an annular slot cut into one face of the roll, a stationary circumferential member and a temperature responsive resistance winding.

130696. Honeywell Inc. Fluid heated roll assembly. Comprsises a hollow roll forming a chamber for introduction of a fluid having a tapered interior surface, external heating means applied at the largest internal diameter end of the chamber and means for rotating the roll.

130697. Midland-Ross Corporation. Railway car coupler. A car coupler of the interlocking type having a shelf on the lower portion of the coupler head with an improved auxiliary interlocking beg which will promote both vertical and lateral alignment of two opposed couplers having their knuckles in an open position during an attempted coupling operation.

130698. I. Mavrovic. Process of synthesizing urea. Reacting ammonia and carbon dioxide in urea synthesis apparatus.

130699. Void.

130700. M. Agrawal. Improvement in or relating to electric lamp. Comprises of a neck unit having filaments and removably connected to the bulb and permanently connected to a cap.

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130701. Comfo-Dent Corporation. Prosthetic denture and method for the manufacture thereof. Comprising a preparation of artificial teeth having bite portions and base portions with notches in the base portions opening in a direction opposite to base portions assembly a set of artificial teeth and bonding a U-shaped rigid member in notches to hold set of teeth in a U-shaped assembly, forming a deformable mesh structure.

130702. Dunlop Holdings Limited. Improvements in boarding arrangements for inflatable craft. Comprising twin inflatable buoyancy chambers and a flexible floor secured to the lower buoyancy chamber the raft having a boarding device in the form of at least one inflatable stub projecting outwardly from an inflatable side member of the craft.

130703. Joseph Lucas (Industries) Limited. Electrical switches. Comprising first and second hallow body, a pair of fixed electrical contact. a conductive plunger and a resilient diaphragm for making scaling engagement of the plunger.

130704. Joseph Lucas (Industries) Limited. Electrical switches. Comprising a cover, a base, a rotor, means for mounting the rotor for angular movement contact member carried by the rotor first and second set of electrical contents.

130705. Joseph Lucas (Industries) Limited. Anti-dazzle device for road vehicles. Including a filter member positioned in a vent in a wall of the casing for the device.

130706. Joseph Lucas (Industries) Limited. Anti-dazzle device for road vehicles. Including a guide bar along which a shutter assembly is slidable by light sensitive means and a polytetrafluro-ethylene member between the assembly and the guide bar.

130707. E. R. Squible & Sons Inc. Process for preparing amino derivatives of pyrazolo-pyridine Carboxylic acids and esters. Comprising reacting an appropriate pyrazolo pyridine carboxylice acid derivative with an appropriate amine.

130708. Void.

130709. Void.

130710. Electrospin Coropration. Sliding radially clamping gripper. Comprising a bevelled tubular terminal element with an internal V-shaped groove and with the bisecting plane of the angle of intersection containing the axis of said terminal element.

130711. Takeda Chemical Industries, Ltd. A process for producing benzodiazepin derivatives. Comprising reacting 7-chloro-2 hydrazeno-5-phenyl 34-1, 4, benzodiazepine with ethyl ortho formate in chloroform.

130712. S. G. Borlikar. Improved foldable food carrier. Characterized in that, the lower most of the receptacles is provided with a bracket on its two sides, each of the receptacle is of different size, each receptacle is provided with a dish, a pair of detachable strip members, having a catch at one end for engaging with a respective bracket of the lowermost receptacle and a slab at the other end of the strip member, a handle having a grip at the upper portion and two arms, said stud is provided with a stud, a locking member, pivotally mounted below the grip of the handle.

130713. Texaco Development Corporation. In a solvent refining process a method for controlling the composition of fluids and apparatus therefor. In a solvent refining process of a lubrication oil stock wherein the oil stock is mixed with a solvent mixture specific composition comprising two components consisting of a wax anti-solvent and an oil solvent and as a result of said mixing with said oil stock, a reusable solvent mixture is extracted wherein the two components are present in amount differing from said specific composition, the method includes the steps of generating a first signal representative of the predetermined concentration target value, separating the fluid into at least two fractions, a first fraction which is richer and a second fraction of which is poorer of the selected component.

130714. Zaidan Hojin Biseibutsu Kagaku Kenkyu Kai. A process for the preparation of 3′ -4′ -dideoxykanamycin B active against resistant bacteria. Comprising protecting the amino and all or part of the hydroxyl groups other than 3′ and 4′ hydroxyl groups of kanamycin B, sulfonylating the 3′ and 4′ hyroxyl groups, removing the 3′ and 4′ disulfonic esters groups and removing the product.

130715. W. H. Engle. Modular stuctures of two basic elements used in building industry. Comprising a plurality of first tubular members forming rows, each member being of equal size and length and terminating in flattened ends and a plurality of second tubular members equal in size but shorter in length than first members. being inwardly disposed between adjacent rows and flattened ends bolted to the flattened ends of first members to form joints thereby angularly extending from each joint on a row to the nearest joint on the immediately adjacent row.

130716. Deutsche Gold-Und Silber-Scheideanstalt Vormals Roessler. Process for the preparation of calcium thioctate. Dissolving thioctate in alcohol. converting the acid into salt by reaction with a base. and finally precipitating water insoluble calcium thioctate by addition of aqueous salt solution.

130717. **Skf Kugellagerfabriken Gmbh.** Process for the lubrication of bearings of rotatable shafts housed in bearing housings as also equipment for executing this process. Characterised in that the lubricant is pressed for so long through the first bearing housing opening until it reaches a second bearing housing opening and finally the lubricating medium is again sucked out of the bearing housing.

130718. Void.

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130719. **Universal Oil Products Company.** Apparatus for reconditioning reforming catalyst. Comprises in combination an elongated vertical positioned confined chamber, particle inlet means to the upper end of the chamber, gas inlet means to carbon burn-off section and the flue gas out-let means, a halogen gas inlet means and catalyst particle withdrawal means.

130720. Stamicarbon N. V. Process for preparing a solution containing hydroxyl ammonium phosphate. Catalytic reduction of nitrate ions with molecular hydrozen in aqueous nitrate ions and phosphoric acid containing medium, the phosphoric acid being pre-treated with hydrozen and adsorbent material containing platinum group of elements.

130721. G. K. N. Birfield Transmissions Limited. Improvements in or relating to the manufacture of constant velocity universal joints. (May 1, 1970). Forming outer member of the joint with external grooves offset circumferentially from the tracks of the outer member and a radial depth less than that of the tracks, and with a circumferentially extending external groove, and forming one end portion of said shaft with inwardly extending projections engaging in said grooves.

130722. Kamyr Aktiebolag. Method and plant for impregnation of cellulosic fibre material with digesting liquor. Characterised in that digesting liquor is supplied to and spread over a zone of impregnation vessel situated distantly from the bottom as well as the top of the vessle the liquor being driven from said zone to the fibre material.

130723. Dunlop Holdings Limited. A pneumatic tyre and wheel rim assembly and a method of mounting a pneumatic tyre on a wheel rim. Comprising fitting the tyre to the rim by a method employing the well portion to enable the tyre beads to pass over a rim flange and subsequently subjecting at least the well portion of the rim to axial compression so as to reduce the axial width of the well portion.

130724. Girling Limited. Improvements in and relating to servo boosters for vehicle brake systems. (March 31, 1970). Characterised by the provision of means for positively biasing the valve closure member in a direction away from valve seats when at least one of the valve of seats is engaged by the closure member whereby to enhance subsequent lifting of the closure member from this valve seat.

130725. American Flange & Manufacturing Co. Inc. Tear-off closure cap. Having a tear strip integrally formed in the cap skirt and top and including a pull member extending away from the skirt edge.

130726. Pakrite. Improvements in or relating to foldable voting compartment. Comprises a sheet of corrugated board having a plurality of lines of fold for forming vertical walls, wherein each wall has a strip at one side extending outwardly to engage the floor by pins and like.

130727. Nippon Hoso Kyokai and Tokyo Shibaura Electric Company Limited. Metal vapour discharge lamp. Characterized in that the ratio of the effective diameter De(mm) to the length L(mm) of the electrode body (5) and the ratio of effective diameter De(mm) to the current Ib(A) of lamp when it is lighted under stable condition satisfy the following formulae respectively

$$15 \leqslant L(mm)/De(mm) \leqslant 46$$

$$1.71 \leqslant 10.4(A)/De(mm) \leqslant 4.$$

130728. Void.

130729. Void.

130730. Void.

130731. Void.

130732. Void.

March 26

130733. Dr. Dinkar Govind Takte. Process for preparation of tin oxide catalyst containing traces of sulphur. Comprising calcining tin sulphide in air at about 500°C.

130734. Dr. Dinkar Govind Takte. Process for the preparation of tin oxide catalyst containing halogen on its surface. Comprising doping tin oxide with an organic or inorganic halogen containing compound under vacuum at a temperature from 340° to 490°C.

130735. Void.

130736. Dr. Dinkar Govind Takte. Process for the preparation of indium oxide catalyst. Comprising heating indium sulphide in air at about 600°C.

130737. Dr. Dinkar Govind Takte. Process for the preparation of gallium oxide catalyst. Comprising doping gallium oxide with an organic or inorganic volatile halogen containing compound under vacuum of the order of 10^5 mm Hg at from 380°C to 450°C.

130738. Imperial Chemical Industries Limited. Manufacture of 1, 1′-disubstituted-4, 4′-bipyridylium salts. (April 3, 1970). [Addition to No. 121906]. Process for the manufacture of a 1, 1′-disubstituted 4, 4′-bipyridylium salt which comprises reacting a N-substituted pyridinium salt with hydrogen cyanide under basic conditions and subsequently oxidising the resulting interaction product.

130739. Pfizer Inc. Process for preparing novel 6, 7-dimethoxyquinazolinones useful as analgesic and tranquilizer agents. (July 29, 1970). Reacting a reduced quinazoline-4-one with a compound Z—Y where Z is CN.-C(R)O, -C(O) CF_3 O(O)N(R) (R′) or-C (O) (OR; except Z is never C(O) OH where R and R′ are hydrogen or lower alkyl one Y is halogen, OH, O alkyl or O aryl.

130740. Imperial Chemial Industries Limited. Continuous process for the production of fibre reinforced thermoplastic materials. (April 7, 1970). Comprises passing a roving through a powedered thermoplastic material bed and separating the roving into filament bundles and subsequently heating the impregnated roving above melting point of the thermoplastic.

130741. Fabrica Italiana Magneti Marelli S.p.A. An electronic device for regulating the voltage of alternators, particularly for motor-vehicles. Characterised in that the power circuit supplying current to the field winding comprises one or more supply lines and each comprising a silicon controlled rectifier diode.

130742. Bayer Aktiengesellschaft. Process for the production of stable aqueous dispersions of optical brightening agents. Characterised by introducing corresponding association complexes of brightening agent and low molecular complex formers into aqueous solution of polymeric compound.

130743. Oy Tampella Ab. Device for unlocking a traction unit, particularly with vehicles. A system is provided for separating the traction unit, the system incorporates a lever which by means of a jib engages with a projection provided on the stationarily fitted traction unit part and the free end of which is provided with a jack which can swivel about a projection.

130744. J. A. Taraporevala. An improved weighbatcher. First and second channels being maintained in spaced relationship by a connecting member connected at its other end through a bearing point to a third lever provided with a graduated scale which cooperates with a pointer mounted on a jeckey.

130745. Void.

130746. Void.

130747. Chiramel Matthen Joseph. A device for the detection of train on a rail section. Comprising a transmitter and a receiver both of which are located on the ground in such a way that in normal position, the receiver receines no appreciable amount of energy from the transmitter for operation of the relay, a coupling device fitted to the first/last vehicle of a train, which transfer appropriate amount of energy from transmitter to the receiver when the coupling device is brought with in the proximity of the system.

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130748. Void.

130749. Pennwalt Corporation. Refining of triglycerides. Characterized in that the soap-stock in triglyceride oil is separated in a special type of centrifuge by continuously feeding the suspended soap-stock to an elongated imperforate centrifuge bowl continuously rotating about its longitudinal axis and separating the soap-stock against the wall of the centrifuge bowl.

130750. Kumares Dhar Chaudhuri. A device for gripping metallic ropes. Characterised in that a jaw member is provided in between a sliding and a wedge member for gripping the rope between one side of the sliding and said jaw member.

130751. Joseph Lucas (Industries) Limited. Electrical lamps. [Divided out of No. 123243; ante-dated to September 22, 1969]. Including an insulating body having an integral upstanding wall an aperture in wall and a pair of strip like conductive contacts extendings through aperture, contacts being engaged with opposite edges of the aperture in the wall.

130752. Sperry Rand Corporation. Improvements in axial piston pumps. It has a rotatable cylinder barrel carrying a plurality of reciprocable pistons, a stationary valve plate having arcuate inlet and outlet ports separated by top and bottom dead-centre sealing lands, a swash plate mounted for tilting motion and ball joined piston shoes alidable around said swash plate.

130753. Void.

130754. Void.

130755. Void.

130756. Void.

130757. Void.

130758. Void.

130759. Void.

130760. Void.

130761. Void.

130762. Void.

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130763. S. Venkateswaran and K. R. Rao. Improvements in or relating to electronic oscillators. Comprising unity gain voltage amplifiers, a low pan filter, resistance and capacitance between the amplifiers and a feed back circuit.

130764. Void.

130765. Zinser Textilmaschinen Gesellschaft Mit Beschranket Haftung. Spindle brake. Comprising two brake components pivotable in unision into a braking and a withdrawn position, securing means for pivotally attaching each brake component to a stationary part and resilient means securing said brake components together, and means to stably maintain said brake components in at least said braking position.

130766. Joseph Lucas (Industries) Limited. Electrical components. (April 18, 1970). Characterised in that a terminal member including conductive portion with an aperture; and a finger partially closing said aperture, a wedge shaped gap between the wall of said apterture of said finger and lead being wound around said finger.

130767. Fmc Corporation. Process for preparing isoxazolopyrimidines. Characterizes in that the corresponding 5-amino-3 alkyl isooxazole-4-carboxamide is reacted with an anhydride in the presence of concentrated sulfuric acid.

130768. Medical Testing Systems, Inc. Clinical specimen collecting implement. Comprises a handle means for manually rotating the implement, a blade means secured to the handle means, said blade means including a slanted edge and a recessed groove to receive the diagnostic material collected by said edge from the situs.

130769. Abex Corporation. Production of friction materials. Characterised in that the mixture initially in subjected to a predetermined amount of constant pressure, and in that in a subsequent second step a pressure is applied, whereupon the heat curing is carried out outside of the mold.

130770. Tarsons products. Test-tube stands. Wherein the closed end of the test tube are mounted or lined with metal.

130771. Ele Paso Natural Gas Company. Improvements in or relating to water treatment. Subjecting mineral containing water to demineralization, mixing mineral concentarted water fraction thus obtained with a non valatile fluidizing liquid, subjecting a pumpable mixture left after removal of water to dehydration to provide a condensate water effluent and a slurry containing minerals suspended in the fluidizing liquid separating minerals from fluidzing liquid and recycling the latter for continued operation.

130772. A. G. Petzetakis. Connector for pipes. Comprising two connecting points with a ring gasket inserted in a groove in each connecting part, one connecting part having a half shell onto which the other part is laid and held by mating elements and locked.

130773. Rafinaria Ploesti. Process for refining of petroleum fractions. Comprises extracting at 20-150°C with 1-4 parts of solvent 70-99 per cent by weight of acetone and 1-30 per cent by weight of water for each part petroleum fractions.

130774. E. E. Rassler. Improvements in or relating to thermal lances. [Divided out of No. 125418; ante-dated to February 23, 1970]. Characterised by that the core has at least one profile outer or inner face running lengthwise and that the core makes firm contact with the inside of the sheath only in sections running parallel to the common axis.

130775. Shinetsu Chemical Company. Method for suspension polymerizing vinyl chloride. In a process for suspension-polymerising vinyl chloride or a mixture of vinyl monomers in all aqueous medium containing a suspending agent and a catalyst in a polymerisation vessel equipped with a condenser which is kept inoperative until conversion of monomer to polymer reaches 5 per cent and started to operate only after it reaches at least 5 per cent.

130776. Vsesojuzny Nauchno-Issledovatelsky Institut Avtomatizatsli Chernoi Metallurgii Air-operated actuator of a ladle stopper rod. Comprising a rotary air motor associated via a gearing-drown unit (4) with a screw (5) which is led through a nut (6) associated with the stopper rod (1).

130777. Void.

130778. C. Roy. Improvements in or relating to electric fans. Comprising suction fan at the bottom of cylindrical casing a pyramid shaped hollow body, set of holow circular grills and two switches for fan and heating element.

130779. Mistry Bros. An improved folding table. Comprising two pairs of legs hinged to two brackets, a bracking member connects the opposite legs two ribs are fitted on the bracket each rib having a lateral branch.

130780. Void.

130781. Preformed Line Products Company. A helically performed appliance for securely gripping a linear body. Comprising a first and second elongated leg portions and a return bent integral with first and second leg portions.

130782. Zaklady Azotowe, Kedzierzyn. Method of making phthalic anhydride. Comprises oxidising vapor mixture containing orthoxylene and/or naphthalene and air in the presence of fixed or fluidized catalyst bed the catalyst having a composition containing vanadium pantaoxide, molybdenum troxide, titanium dioxide, stannous dioxide, tungstic oxide, potassium oxide and/or sodium oxide sulphuric anhydride and a carrier.

130783. Takeda Chemical Industries, Ltd. Method for producing citric acid. Characterized by incubating a yeast, a mold or a bacterium whose growth is inhibited by a citric acid antimetabolite and conform citric acid, in a cultured medium and recovering citric acid thus produced therefrom.

130784. Nippon Kokan Kabushiki Kaisha. A combustion process and apparatus for blast furnace. Injecting hot blast which is made to swirl in a blow pipe into the furnace, introducing oxygen or oxygen enriched air which is made to swirl in a burner into the blow pipe and adding fuels to the bruner.

130785. Dr. C. Otto & Comp, GmbH. Leveller door closing device on the doors of horizontal chamber ovens for the production of coke and gas. Characterized in that a tubular casing rurrounding the leveller bar passage, can be bolted at different levels to the door body be means of projections at both sides, and connecting pieces located at the top and bottom of the casing.

130786. Void.

130787. Godrej & Boyce Mfg. Co. Private Ltd. A shutter frame for use in a window frame. Having oppositely disposed vertical limbs and oppositely disposed upper and lower limbs and engagement member or members fitted to at least one limb of one set of said oppositely disposed limbs and pivotally and/or slidingly connectable to the window frame.

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130788. Council of Scientific and Industrial Research. Lead chloride water activated cell system. Wherein the lead chloride cathode is made by pressing a mixture of lead chloride, copper powder, and a binder material, over a metalic grid and subjecting it to heat treatment.

130789. K. K. Xavier. A gear operated loading mechanism for air rifles. Comprises a thin wire rope one end of the rope being connected to the piston of the air rifle and the other end to a first combination of a winding barrel and spur gear mounted on a shaft operated by a knob wherein a second combination of a pinion, wheel and shaft being provided in such a way that wheel in the first combination gears with the pinion of second combination and a separate pinion mounted on the shaft operated by knob gears with the wheel of second combination.

130790. Werkzeumaschinenfabrik Oerlikon-Buhrle A.G. Automatic load dependent compressed air brake system. [Addition to No. 123244]. Comprises a control valve, a load brake cylinder and an unload brake cylinder, a pressure transmitter, said cylinders act on a linkage to operate a brack block. A pressure limiting valve controls the charging of the load compensating brake cylinder irrespective of the load on the vehicle, and means controllable by the pressure in the unladen brake cylinder for relieving the load brake cylinder.

130791. Joseph Lucas (Industries) Limited. Bulb holders. (May 2, 1970). Comprising an insulating body with a bore closed at one end two electrical contact member fitted physically and electrically with contact leads. said second lead having portion arrange to receive a bulb.

130792. Fisons Limited. Process for the preparation of azines and the compounds so prepared. (April 10, 1970). Passing a gas comprising free chlorina and inert gas through a reaction mixture containing ammonia, a carbonyl compound and a strong base.

130793. Indian Institute of Technology. An improved method of manufacture of sodium meta silicate and manufacture of silica gel therefrom. Burning waste paddy husk to ash, subjecting said ash to 900°C, leaking the powder thus obtained with mineral acid washing drying and mixing said powder with sodium carbonate, heating the said mixture to 850°C. dissolving fused mass thus obtained in boiling water and heating resulting solution and filtering the solution.

130794. Indian Institute of Technology. Improvements in or relating to devices for converting rotary motion into straight line motion. Comprising a first and second rotary member, the forms having a first and third and the latter having a second and fourth wheels meshing together and a rectilinearly movable member attached to the second gear wheel and engaging the second rotary member.

130795. Void.

130796. Aktiebolaget Tudor. Battery Electrode. Comprising a glass fiber weave or braid combined with a sintered or fused on plastic particles.

130797. Takeda Chemical Industries, Ltd. Method for production of quinoline derivatives. Comprises reacting 3-amino-6-chloro-4-phenylquinoline with an acylating agent.

130798. Film Cooling Towers (1925) Limited. Improvements in or relating to packing for cooling towers. (March 31, 1970). Comprising a plurality of sheets curved about their respective longitudinal axes and mounted in said curved state in support means.

130799. Ube Industries, Ltd. Process for the treatment of a reaction product obtained by oxidation of cyclohexane. Process wherein a reaction product obtained by the oxidation of cyclohexane is treated with an aqueous alkali solution, alkalies including caustic soda and sodium carbonate are recovered from the resulting alkaline waste liquor, and thereafter their alkalies are recycled to the foregoing step wherein the reaction product obtained by the oxidation of cylohexanone is given an alkaline treatment.

130800. Snam Progetti S.p.A. Process for the production of urea. Introducing into the decomposer, into the codenser or into the gaseous stream at any point between the decomposer and the condenser, at least one of oxygen, a gaseous mixture containing oxygen and a substance which is capable under the operating conditions of developing oxygen, as a corrosion inhibitor.

130801. Snam Progetti S.p.A. Process for producing urea. Wherein unreacted carbamate present in the liquid-phase urea containing solution from the urea reactor is decomposed and the decomposition products are recycled in the gaseous phase to the urea reactor to condense therein.

130802. Texaco Development Corporation. Solvent refining of naphthenic lubricating oil. Comprising contacting with a wet solvent consisting of between 2 snf 15 weight % of water and between 85 to 98% N-methyl pyrrolidone.

130803. J. Wischin. Reinforcing bars for concrete and their manufacture. Reinforcement bar provided with notches or ribs longitudinal axis of notches being at an angle to the longitudinal axis of bar and the flanks of the notches being symetrical.

130804. Void.

130805. Void.

APRIL 1

130806. Void.

130807. Hindustan Lever Limited. Emulsions. Comprises injecting a fat phase liquid into a stream of an aqueous phase liquid with a pressure difference between the liquids immediately before injection of at least 100 atmospheres and a pressure in the second liquid of at least 0.3 atmospheres.

130808. Shell Internationale Research Maatschappij N. V. Apparatus for effecting the intimate mixing of two gaseous streams. (April 3, 1970). Wherein therein present in the second chamber at least one partition, provided with openings, in a position perpendicular to the centre line of the casing and in the neighbourhood of the mouths of the tubes in the mixing chamber, which tubes extend to the partition(s) provided with openings.

130809. Void.

130810. Void.

130811. Shell Internationale Research Maatschappij N. V. Improvements in and relating to the polymerization of olefins. (April 3, 1970). Contacting an olefin monomer with a catalyst composition, prepared by reducing a transition metal compound with a complexed organomagnesium halide.

130812. Void.

130813. Rhone-Progil. Process for depositing precious metals on a metallic support. Subjecting metal support to icnic bombardment in a rare gas atmosphere under reduced pressure and then depositing by cathode sputtering on the support first is a rare gas atmoshpere under reduced pressure precious metal, and then in an atmosphere of rare gas and oxygen under reduced pressure, precious metal and/or precious metal oxide.

130814. Showa Denko K. K. Process for the preparation of novel 3-(2-phenylisopropyl) urea derivatives. A process for the preparation of a 3-(2-phenylisopropyl) urea derivatives which comprises reacting a corresponding 3-(2-phenyl-isopropy) amino compound with an appropriate iso-cvanate derivatives.

130815. Ln2 and Assoc. Inc. Non-pollution motors. Comprising source of liquefied gas. means for heating and evaporating said gas, gas motor drive an electrical generator, electric motor energised by said generator cooling arrangement.

130816. Void.

130817. SKF Kugellagerfabriken GMBH. Bearing unit for spining rotors. The jacket of the bearing housing is provided with a radial opening that is closed by a covering member made out of a rubber elastic metal.

APRIL 2

130818. Council of Scientific and Industrial Research. A process for the production of total alkaloids of belladonna. Directly basifying the powdered plant material with liquior almmonia, extracting the total alkaloids from the basified plant material with an organic solvent and recovering the alkaloids from the solvent by customary methods.

130819. Void.

130820. Uss Engineers and Consultants, Inc. Apparatus for hoisting and positioning ladles. Characterised by a ladle positioning mechanisms comprising a cage supported for vertical movement within the space defined by said columns, means connected to cage normally holding it in a raised position relative to said columns, a trolley supported on the cage, guide means in said trolley for receiving the bar.

130821. Bayer Aktiengesellschaft. Articles of natural synthetic rubber comprising a non-discolouring anti-ageing composition. Comprises a mixture of 2, 2′-iso-butyliderabis-(4, 6-dimethylphenol) and 2-mercaptobenzimidazole in respective quantities of from 0.1 to 5.0% by weight based on the rubber.

130822. Imperial Chemical Industries Limited. Explosive cartridge case for underwater blasting. (May 26, 1970). Comprising tubular body member with blind end sealed by closure before the case is charged and a mouth end closure member engaging the body member.

130823. Westinghouse Electric Corporation. Lighting units. Comprising an electric lamp having a tubuler to vitreous envelop, a protection shield for said envelop consisting of a rigid open ended sleeve and means for retaining said sleeve on the lamb in spaced apart telescoped relationship.

130824. Sumitomo Electric Industries, Ltd., Insulated cable having outer semiconductive layer. The outer semiconductive layer is a mixture of 90-10% by weight at an ethylene vinyl acetate vinyl chloride terpolymer with 10-90% by weight of ethylene vinyl acetate copolymer having 15-55% by weight of vinyl acetate content or cross linking agent and further a conductivity importing agent such as carbon black.

130825. Void.

130826. Casablancas, Limited. Improvements in or relating to seals for sealing the gap between the inner and outer races of a ball bearing. The seal having an inner ring portion and an outer ring portion, the two ring portions being free to move slightly with respect to each other.

130827. Scandia Packaging Machinery Company. Improvements in or relating to wrapping machine. Cutting means, conveyor means including primary pushing means and auxiliary pushing means aligning means, sensing means and means responsive to said sensing means to stop movement of the packages into the receiving means.

APRIL 3

130828. M. L. Malhotra. Cigarette case with a single touch cigaratte ejector. A cigarette case with flick means at one end of the exposed portion of the box.

130829. John Heathcoat & Company Limited. Method of and apparatus for producing bulked yarns. (April 6, 1970). Includes the steps of impregnating a multifilament yarn at one pressure. carrying the yarn forward in a stream of the fluid, causing it to expand suddenly to a lower pressure causing the fluid to separate the yarn filaments to provide a degree of bulking.

130830. Wiltshire Cutlery Company Proprietary Limited. Knife scabbard. Including hollow housing, a sharpening device mounted in their said housing and including a sharpening element, the sharpening device being mounted for pivotal movement about an axis extending transverse to said passage, and pressure means attached to said housing and operative to maintain a suitable pressure between the knife blade and the sharpening device.

130831. Cabot Corporation. Carbon black product process for its manufacture and rubber composition containing the same. Contacting a carbon black producing feedstock with a stream of hot combustion gases flowing at average linear velocity of at least 100 ft per second cooling the effluent gas and separating the active carbon black.

130832. Farbwerke Hoechst Aktiengesellschaft vormals Meister Lucius & Bruning. Tetravalent phenols and process for preparing the same. [Divided out of No. 122123; antedated to July 5, 1969]. Combining 2 molecules of diketene with bis (β-hydroxy ethyl) dioxy-diphenyl-dimethyl methane in presence of basic catalyst and condensing the protduct with phenol or O-alkyl phenol at 10° to 40°C.

130833. Farbwerke Hoechst Aktiengesellschaft vormals Meister Lucius & Bruning. Tetravalent phenols and process for preparing the same. [Divided out of No. 122123; antedated to July 5, 1969]. Condensing levulinic acid with phenol or 0-alkyl phenol and esterifying the product with bis β-hydroxyethyl)-dioxy-diphenyl-dismethyl-methane.

130834. Borgs Fabriks Aktiebolag. Apparatus for regulating the driving torque and energy absorption in energy absorption devices. Characterized in providing for encasing the rotor blades either fully or partially annular and axially adjustable capsule of U-shaped cross-section, said capsule being positioned over blades enclosing the same to a greater or lesser extent.

130835. Joseph Lucas (Industries) Limited. Handbrake controls for road vehicles. (April 24, 1970). Comprises a hollow conductive member, a conductive rod mounted for axial movement within said member a button mounted for axial movement within a metal tube enclosing the free end of said member, resilient means a lens positioned in the exposed end of said button and a bulk holder capable of supporting a bulb within said button.

APRIL 5

130836. Dynamit Novel Aktiengesellschaft. Process for the purification of demethyl terephthalate. Characterised in that crystallisation in methanol is carried by indirect cooling surface being kept free of deposits by scraper means.

130837. Joseph Lucas (Industries) Limited. Overriders for road vehicles. (April 29, 1970). Including a mounting bracket having at its ends a pair of parallel flanges which is horizontal when the over-rider is mounted on a vehicle, each flange having an aperture and each of the apertures provide means for mounting a vehicle lamp on the over riders.

130838. Joseph Lucas (Industrits) Limited. Electrical switches. (May 2, 1970). Including an operating member movable in a body to operate a first and second set of electrical contacts and a first and second resilient member urging the operating member to move from a second through a first to an off position and from the second to the first position respectively.

130839. Eastman Kodak Company. Improvements in or relating to a film cartridge. Comprising a take-up chamber, an elongate wed of photosensitive material superimposed on and backing material being secured to take-up means for dawing the backing material and photosenstive material into the take-up chamber.

130840. Eastman Kodak Company. Improvements in/or relating to film cartridge. A film supply chamber, a film support surface and a film take-up chamber and arranged for insertion into a cemera so as to locate the surface of a film to be exposed in the focal plane of the camera the cartridge including a film or a film backing paper of predetermined thickness; the film being of a predetermined width and wherein sealing projections are provided on the film support surface.

130841. Hindustan Lever Limited. Built laundry soap containing disproportionated rosin. A built laundry soap tablet comprising 58-74 % total fatty mater, 0.5 to 17% disproportionated rosin by weight of total fatty matter, 3-15% builder, 20-30% water and an additive.

130842. Hindustan Lever Limited. Detergent compositions and process for their manufacture. Comprising neutralising alkyl benzeno sulfonic acid with a hot concentrated aqueous Na_3 Po_3 mixing derived components and extruding the mixture at 120-200°F.

130843. Combustion Engineering, Inc. Method for forming corners of omega-type expansion joints. Comprising steps of providing central opening in the plates forming the plate about the opening into a surface of resolution, placing a pair of so-formed plates in abutment joining by welding, and severing the assembly.

130844. Wheelabrator Tyre Inc. Centrifugal blasting wheel and blade. Blasting wheel in which each blade is prevented from outward displacement by a locking member mounted for swiveled movement bewteen the disc plates for engagement with a catch.

130845. E. I. du Pont de Nemours and Company. Process for the preparation of fungicidal substituted acetamide s-oxides and their derivatives. Comprises oxidizing a 2-hydroxyimino-2-hydrocarbylthio-N, N-dialkylacetamide with usual oxidizing agents.

130846. Void.

130847. R. K. Kedia. Theft prevention device. Characterised in that a socket having a plurality of opening spaced from each other, a plug having a plurality of pins which is adapted to fit with in the said openings.

130848. Suresh Kumar Agarwal. Electrically heated coverlets. Characterized in an electric resistance wire having a silk coating disposed within an insulting tube and adhered to a casing consisting of a leading material and an outer cover sheet.

130849. Walchandnagar Industries Limited. Jyoti Prasad Mukherji, Anil Chandra Chatterjee and S. Gangavati. Improvements in or relating to massecuite holding troughs or pugmills. A deflector plate is provided to direct the incoming massecuite to travel towards the valley formed by a riser plate attached to the shell of the pugmill.

130850. Sandoz Ltd. Process for the production of high molecular weight polymers. Characterised by the addition of a parting agent in liquid and/or solid form or as a solution, dispersion or emulsion to the cooled or comminuted pre-polymer or to the pre-polymer in the heated vortex or at an early stage of the solid phase condensation polymerization but invariably before its sticking temperature is reached or by the application of parting agent the inside wall of the reaction vessel.

130851. Sandoz Ltd. Process for the production of new phenanthrotriazolyl derivatives. Comprising oxidative cyclizing the corresponding 4-amino substituted phenanthrotriazolyl derivatives.

130852. Sandoz Ltd. Process for the dyeing of natural and synthetic polymide fibres. Characterised by applying to the fibre a complex of a monoazo compound, obtained by coupling the diazo compound of 1-hydroxy-2-amino-4, 6-dichloro benzene with 2-(4'-methoxy phenyl amino)-5-hydroxy naphthalene-7-sulphonic acid, with a compound donating chromium.

130853. International Standard Electric Corporation. Subscriber metering registration system for a telephone exchange. Comprising centralised metering units which can supervise trunk circuits, calling line identifiers, call number prefitraslator which provide metering level.

130854. T. R. Cassel. Pipe coupling. Comprising a first pipe section, second pipe section having an end portion axially insertable into an end portion of the first section and having a wall preformed with a radially inwardly extending deformation.

130855. Void.

130856. Void.

130857. Void.

APRIL 6

130858. Council of Scientific and Industrial Research. A process for the extraction of catechins directly from the hydraulic press "Kattha-londi". Wherein *"Kattha-londi"* is shaken/warmed with solvent ether containing 5% ethanol the ether extract is warmed to distill of the solvent, residue, warmed with acid water cooled and seeded and kept in a cool and dark place to crystallize catechins.

130859. Girling Limited. Improvements in and relating to servo boosters for vehicle brake systems. (April 11, 1970). Characterised in that the push rod assembly is rigidly located relative to the valve seat member by a tubular nut which engages the valve seat member with an interference fit therebetween.

130860. American Home Products Corporation. Asymmetric reduction of secosteroids. An optically active α-17β hydroxy-8, 14-secogona-tetracone-14, 17-dione by subjecting the compound to the reducing activity of a reducing strain of microorganism *Pichia farinosa* or an enzyme produced therefrom.

130861. Stamicarbon N. V. Process for separating melamine from a hot synthesis gas mixture which contains melamine vapour. Characterised in contacting gas mixture with aqueous solution containing one part of ammonium carbamate and ammonium carbonate per part by weight of melamine.

130862. Void.

130863. Void.

130864. Farbwerke Hoechst Aktiengesellschaft vormals Meister Lucius & Bruning. Process for preparing pigment compositions. Comprises dissolving appropriately substituted xanthene derivative in a water miscible organic solvent optionally in the presence of alkali or alkaline earth metal hydroxide or carbonate, dissolving in this solution a suitable resin which upon treatment with an acid is precipitated with the pigment.

130865. Void.

130866. Void.

130867. Void.

130868. Void.

130869. Void.

130870. F. Hoffmann-La Roche & Co. Aktiengesellschaft. Cyclopropane derivatives, process for their preparation and insecticidal composition containing the same. (June 8, 1970). Comprises either reacting 2, 2, 3, 3-tetramethyl-cyclopronane carboxylic acid bromide with an alcohol an alcohol or reacting an alkalimetal/Ag salt of 2, 2, 3, 3-tetramethyl cyclopropane carboxylic acid with a halide.

130871. Void.

130872. Cassella Farbwerke Mainkur Aktiengesellschaft. Process for the production of disazo dyes Diazonium salt of 4-amino-azobenzene is coupled with 2, 6-dihydro-3-cyano-4-methyl-pyridine.

130873. The Metal Box Company Limited. Improvements in the manufacture of can bodies. (April 8, 1970). Method of soldering side seams of carbodies can bodies directing a jet of molten solder upwards on to the moving seams in the cold condition and post-heating each seam.

130874. The Metal Box Company Limited. Pull tabs for can ends. (April 15, 1970). Wherein the sides of the pull tab extend straight and parallel to each other and at right angle to the transverse zone which includes hinge line.

130875. The Metal Box Company Limited. Method and apparatus for making can bodies. (April 8, 1970). Including forming a thin tubular metal body with an outwardly-curved end flange, and forming immediately behind the flange a neck by rolling.

130876. Void.

APRIL 7

130877. Atlas Copco Aktiebolag. A machine for driving tunnels, drifts, raises and the like. Comprising a main frame, means for supporting it, a cutting device, motor means for producing a reciprocating swinging movement of the cutting device, a circular cutter head, the head having a plurality of cutter bits arranged circumferentially.

130878. Void.

130879. Dynamic Plastics Private Limited. A toy building set. Comprising a plurality of components, each compronent being characterised in that it is formed with a plurality of circular perforations of same diameter arranged along a series of parallel and perpendicular lines at regular intervals, the periphery of each component being formed with a plurality of equidistant teeth.

130880. Dynamic Plastics Private Limited. A toy top. Comprising a casing, a flywheel within the casing supported for free rotation about its axis, means for effecting the rotation of the flywheel and a spindle for supporting the toy top on horizontal surface while spinning.

130881. W. X. Halloran. Self-retaining muscle retractor. Comprises a first and a second member, a brace pivotally carried one end of said first member, the second member formed on its lower extremity with a bore engaging portion and on its upper portion with a lever arm having a latch element.

130882. W. X. Halloran. Injection apparatus for injecting medicines. Wherein the sleeve may be retracted on said needle to expose said point, a patient's vein pierced with said point and said needle inserted down said vein and said finger grasped and pushed to push said sleeve outwardly over said point.

130883. K. Zaidener. Locking mechanism and an anti-theft device for road vehicle incorporating the same. (April 8, 1970). A spring urged detent being movable at an angle into engagement with a series of recesses in a relatively movable manner and means for moving or holding the detent against the spring action.

130884. N. S. Uberoi and J. S. Uberoi. Device for moistening swabs and like materials. Comprising in combination a closure means for the container, means for increasing pressure on the surface of liquid, a discharge equipment and a means for controlling discharge of the liquid.

130885. Void.

130886. Societe Fives Lille Cail. Process for cystallisation by evaporation of sugared juices or analogous products and an installation therefor. Wherein juices transverse in succession concentractor and heated cells, rate of flow of subsaturated solution supplied to last and intermediate cells in regulated independence of concentration of product extracted from last cell.

130887. Continental Oil Company. Method and apparatus for continuously plating. Apparatus for continuously plating a strip which consists of a housing, a heating device in it, a plating solution chamber in said housing, a rinsing chamber in said housing adjacent said plating solution chamber means for feeding the substrate to said housing means for drawing said substrate through said housing.

130888. K. K. Xavier. An improved room cooler. Characterised in that the driving arrangement for the suction chamber consists of a spur pinion being provided to drive an internal spur wheel with the open end of suction chamber and the spurpinion being driven by means of a belt attached to the hub of the fan.

130889. Void.

130890. Girling Limited. Improvements in disc brakes for vehicles. (April 8, 1970). In which the stationary member is provided with arms in its ends adjacent to disc, on the arms friction pad assembly is guided for movement, the arms being of channel section.

130891. Universal Oil Products Company. Lubricating oil base stock production. Comprises reacting first hydrocarbon charge stock and hydrogen in presence of hydrocracking catalyst in reaction zone vapour phase effluent thereof is reacted in second reaction zone with second hydrocarbon charge stock to obtain second vapour phase effluent portion thereon being recycled in first reaction zone re-} covering by fractionation first and second liquid phases.

130892. Stamicarbon N. V. Preparation of a mixture containing C-substituted pyridines and corresponding hydrogenated, C-substituted pyridines. Comprising contacting a γ^{1} -cyanoketone in the gaseous state and in the presence of hydrogen with a catalyst system containing a metal from or a compound of a metal from the 8th group or the 1st side group of the Periodic system of Elements.

APRIL 8

130893. Joseph Lucas (Industries) Limited. Electrical switches, (May 16, 1970). Comprising a base, a cover extending of the base, a rotor a conductive roller carried by the rotor and defining the movable contact of the switch and a pair of fixed contacts carried by the base.

130894. Nedschroef Octrooi Maatschappij N. V. A device for rolling screw thread. Characterised in being provided with a cleft presenting a slit shaped bore in the lower termination and a groove in the upper termination, which groove receives an adjustable member to control its width, said cleft extending longitudinally parallel to the direction of reciprocation.

130895. Void.

130896. Delalande S. A. A process for the prepartion of new derivatives of 4′-aminomethyl spiro [dibenzo (A-B) cyclo-hep-tadi (or tri) ene-5:2-dioxalane]. Alkyl groups having from one of three carbon atoms, or alternatively together with a nitrogen atom to which they are attached from a heterocyclic radical selected from the group comprising pyrrilidino, piparidino etc. comprising the teps of preparing 4′-bromomethyl spiro dibenzo (a-d) cyclohepti (or tri) ene-5:2-dioxolane.

130897. Chinoin Gyogyszer Es Vegyeszeti Termekek Gyara Rt. Process for the preparation of 1-[2′-alkyl-4′-amino-pyrimidyl-5′] pyridinium derivatives. Process for the preparation of pyridinium-derivatives which comprises reacting a pyridine-acetic acid derivative with a pyridine derivative and decarboxylating the resulting product.

130898. Dash Fasteners Private Limited. Improvements relating to resilient plugs, sleeves or the like fastening means. A resilent plus characterized in that it consists of two or more strip segments shaped at their outer free ends to form a countersunk head, the segments being made in a linear orientation and connected in the middle by a radiused portion.

130899. Void.

130900. Envirotech Systems. Inc. Method of and apparatus for heat treating sewage sludge and lime sludge. Providing treatment of ash and recalcined lime obtained from a recalcining incinerator and separation of the ash and calcined lime in a mechanical separator for selective reintroduction of the lime into the treatment.

130901 Prolizenz AG. Continuous casting. In which casting is started with an inclination of the mould downyards from the horizontal of between 0° and 5°C, whereupon the machine is set in motion and further casting is carried out with would at a downward inclination which is greater than on starting and which is between 4° and 45°.

130902. Rohm and Haas Company. Modified thermoformable compositions. Comprising a blend of upto about 99 weight per cent of a rigid thermoplastic polymer and about more than 1 weight per cent of a multistage polymers.

130903. Rohm And Haas Company. Modified vinyl halide polymers. Comprising (A) a first, elastomeric portion polymerised from monomers of C_2-C_8-alkyl acrylates and (B) a final, rigid thermoplastic portion polymerised in the presence of said elastomeric portion from monomer(s) of C_1-C_4-alkyl methacrylates.

130904. Combustion Engineering. Inc. Mechanism for supporting a toggle section connected in a duct system between spaced conduit sections. Comprising pivot point to one duct a lever arm, on pivot point first link means connecting fever arm and other duct section second link means connecting lever arm and toggle section.

130905. Void.

130906. Industriewerk Schaeffler Ina-Nadellager. Three roller, double apron drafting system for ring spinning machines. Characterised in that the bottom feed roller is offset upwardly and out of the plane passing through the axis of the bottom apron and delivery rollers and top apron roller is offset in relation to the bottom apron roller.

130907. Void.

130908. Industriewerk Schaeffler. Weighting arm for top rollers of drafting systems for ring spinning machines. Characterised in that the supporting bar is hollow to receive hydraulic or pneumatic loading element, a first lever pivotally mounted on the supporting element and a means for transmitting to said lever the load of said hydromatic or pneumatic loading element or a mechanical loading element.

130909. Void.

130910. Industriewerk Schaeffler Ina-Nadellager. Three roller-pair drafting system for ring spinning frames. Characterised in that the bottom feed roller is offset upwardly out of the plane passing through the axes of the bottom apron roller and bottom delivery roller by half its diameter relative to the top feed roller in a direction toward the apron roller pair.

130911. Void.

130912. Void.

130913. Industriewerk Schaeffler Ina-Nadellager. A weighting arm for top rollers of drafting system for spinning machines. In the supporting element there is a spring loaded bolt acting at one end of fulcrumed lever. whose other end is adapted to act on a second fulcrumed lever acting on a pin.

130914. Ciba-Geigy AG. Cationic anthraquinone dyestuffs, process for their manufacture and synthetic. acid modified fibre material dyed or printed therewith. Process for the manufacture for the anthraquinone dyestuff wherein an suitable anthraquinone compound is reacted with an convenient ester.

130915. Void.

130916. Void.

130917. Societe Fives Lille Cail. Machine with a rotor having a vertical shaft suspended in the manner of a pendulum. Wherein the rotor is articulated on the driving shaft and connected to it by means of a flexible coupling for effecting a rotary drive for the rotor while permitting it to make angular movements in relation to shaft and an elastic return device interposed between the rotor and the shaft adapted to counteract the angular movements of the rotor.

130918. Nippon Kokan Kabushiki Kaisha. A method of making butt welded tubes. Forming a skelp into a tubular shape and welding the abutting edges of the skelp together to form a tube flowing oxygen or air into the region of the butt weld to partially soften or melt it as well as blow of notches to smoothen said region, and then passing it between reducing rollers.

130919. James Machie & Sons Limited. Improvements in and relating to yarn winding machines. Wherein two or more separate devices for traversing a yarn guide along the portion of the spindle on which each respective package is to be the would are provided.

130920. N. V. Philips Gloeilampenfabrieken. Transmitter for the transmission of signals by pulse code modulation. Comprising a pulse code modulator, a pulse generator, a comparison circuit a difference producer and a dynamic control voltage generator.

130921. Montedison Fibre S.p.A. (formerly known as Chalillon Societe Anonima Italiana Per Le Fibre Tessili Artificiali S.p.A. Continuous process for the preparation of acrylic filaments and fibres with improved dayability and mechanical characteristics. Characterised in that 80 per cent by weight acrylonitrile polymer filaments from coagulating medium with 10 per cent by weight of solvent are stretched with 3.50 draw ratio and shrunk 25 per cent—45 per cent and then washed dried.

APRIL 12

130922. Void.

130923. Stamicarbon N. V. Process for increasing the corrosion resistance of austenitic stainless steels. Characterised in that the surfaces are first exposed for sometime to the corroding action of the solution (containing ammonium carbamate) and subsequently heated at least to 100°C in an oxidising medium for sometime.

130924. Queen's University At Kingston. Vortex clarifier for seperation of fluid. (February 4, 1971). Comprising a separating chamber defined by an annulus between inner and outer cylinders rotating in synchronism and a first and second set of impeller blades in communication with said separating chamber.

130925. United Kingdom Atomic Energy Authority. Improvements in or relating to the reduction of tungsten or molybdenum oxides. A process for reducing refractory metal oxides comprising contacting a bed of the hot refractory oxide with a current of carbon monoxide and recirculating the mixed monoxide and dioxide off-gases through a reducing agent to the bed.

130926. Sarvoday Industries. Rising butt hinges. Comprising two leaves each having a sleeve and a helically formed pin adapted to rotatably side into or out of the said sleeves, the helix being atleast a four start one.

130927. Phillips Petroleum Company. Improvements in microbiological aerobic fermentation process. Improvement comprising sterilizing the mineral media by using an aliphatic alcohol prior to its contract with microorganism.

130928. Farbwerke Hoechst Aktiengesellschaft Vormals Meister Lucius & Bruning. New day light flourescent pigments and process for their preparation. Mixing dyestuffs of the benzoxauthene series with the condensate resins, thermosetting the resin components and converting the so-obtained dyed products into a finely divided form.

130929. B.S.C. Footwear Limited. Method and apparatus for manufacturing goods particularly boots and shoes made of material such as leather or a leather substitute (April 13, 1970). Comprises the steps of providing a former, cutting a piece of the material in flat form to a desired shape placing a flexible diaphragm near the material, moving the material into contact with the former and applying a vacuum between the former and the diaphragm.

130930. Kyorin Seiyaku Kabushiki Kaisha. Process for preparing nitrosopyrazolo [1, 5-a] pyridine derivatives. Process for synthesizing 2-substituted nitrosopyrazolo-[1, 5, a] pyridines which comprises introducing a nitroso group into 2-substituted-pyrazolo-[1, 5, a] pyridines.

130931. Gruppo Lepetit S.p.A. Process for the preparation of 6-halosteroid oxazolines. [Divided out of No. 121357, ante-dated to May 15, 1969]. [Comprises reacting pregn-4-ene-3, 20-dione-[17 £ ,16 £ -d] £ -2′-phenoxy azoline with triethyl orthoformate, reacting the obtained compound with N-chloro succinimide, treating the so obtained compound with Acl to obtain pregn-4-ene-3, 20-dione-6 £ -chloro-[17, £ 16 α , d]-2′-phenyl oxazoline which, if desired, is dehydrogenated with chloranil.

130932. Orszagos Gumiipari Vallalat. Pneumatic tyres. Fabric ply reinforcements extends continuously around the annular cross-section of the tyre at an angle of 70 to 90° to the crowal of the tyre and is connected to an elastic of rigid member by adhesive bonding.

130933. F. C. Mendoza. Improvements in and relating to a vibratory conveying system. Comprises a conveying surface to which vibratory a reciprocating motion is imparted by power supply means, filtable suspension elements for holding the said conveying surface in an adequate frame and a mechanism for regulating the inclination of said elements.

130934. Void.

130935. Void.

130936. Void.

130937. Void.

130938. Void.

130939. Void.

130940. D. R. Joshi. Machine for manufacture of soap in sheets. Comprises an electrically heated tunnel drier, inside which air currents are circulated by fans to ensure uniform drying of the sheets.

April 13

130941. M. S. Khurana. Mini sewing machine. Characterised in that stiching mechanism of the machine is looper type and the components with the exception of shafts and screws are made from sheet metal by pressing.

130942. A. N. Kalolia. An automatic ampoules making process and machine. Imparting planetorv motion to a plurality of tubes of glass, heating a particular zone on each such tube for a predetermined period, drawing the tube to form an ampoule blank, constricting, separating the ampoule blank from main tube of glass by heating, cutting, glazing and sorting them.

130943. Shell Internationale Research Maatschappij N. V. Process for preparing carboxamide derivatives. (April 15, 1970). Characterized by reacting O-toluyl chloride with 2-aminopyridine to provide 2-methyl-N-(pyridin-2-yl) benzomide.

130944. Dunlop Holdings Limited. Polyester reinforced rubber articles. Comprises a polyester reinforcement and a composition containing rubber and ether, (a) hexamethyl melamine or (b) a mixture of hexamethoxymethyl melamine and other etherified or esterified hexamethylol melamine compounds.

130945. Dorr-Oliver Incorporated. Benefaction of phosphate rock. A system for benefaction of phosphate rock comprising a beneficiation section and a slimes disposal section consisting of a first and second thickness equipped with rotary rake structure, both operating in series, and containing means for supplying secondary slimes to the first thickner.

130946. Johann Kraus. Reciprocating pump. Comprising a cylinder, an outlet communicating with one end of the cylinder, an outlet valve for controlling said outlet, a reciprocable hollow piston and rod assembly provided in said cylinder.

130947. Void.

130948. Kennedy Van Saun Corporation. Process and apparatus for preheating limestone and the like. Passing gases from contact with the body of limestone into a space overlying the body of limestone, controlling the preheating operation in the preheating zone by passing a first portion of the gases completely through the pre-heating zone and a second portion through only a portion of the pre-heating zone and controlling the preheating operation by varying said second portion.

130949. Saint-Gobain. Apparatus for the formation of sheets or mats of fibres of thermoplastic materials. Wherein a sleeve, disposed below the level of blower means for attenuating extruded threads, is associated with spinneret the sleeve having generally planar side walls which converge in the direction of motion of the gaseous fluid.

130950. Pullman Incorporated. Process for the production of high strength reducing gases. Comprises passing a mixture of hydrocarbon and steam through a reforming catalyst containing alkaline metal compound under strem reforming conditions at suitable temperature and pressure followed by passing through a second reforming catalyst containing no alkali metal compound at appropriate temperature.

130951. T. A. Hartman. Elastomers in shear in force transfer systems. Comprising retaining means including a channel, elastomer sealing member, means for securing the side of the sealing member having contacting surface.

130952. The Air Preheater Company, Inc. Waste incinerator apparatus. Characterised by providing a known valve device in the combustion chamber such that the air supply to the burning waste is reduced when temperature increase and the conditions in the primary chambers are less than stoichio-metric.

130953. Void.

130954. Farbwerke Hoechst Aktiengesellschaft vormals Meister Lucius & Bruning. Process for the manufacture of benzoxanthene and benzothioxanthene dystuffs. Characterized in that benzoxanthene-3, 4-dicarboxylic acid anhydride is reacted with fuming sulfuric acid.

130955. Farbwerke Hoechst Aktiengesellschaft vormals Meister Lucius & Bruning. Process for the production of benzoxanthene and benzothioxanthene-dicarboxlic acid imide dyestuffs. Comprising condensing corresponding benzoxanthene or benzothiozanthene dicarbolic acid an hydrides with an appropriately substituted amine at a temperature from 100° to 280°C.

130956. Void.

130957. Void.

130958. Void.

130959. Merck & Co. A caned and bottled leeverage, fruit and vegetable preparation and method of stabilizing chi same. Containing ascorbic acid and a soluble ferrous ion salt in the amount so that the ferrous ion constitutes 0.008 to 0.12 mg. per milliliter of the proparation.

130960. Fernseh Gesellschaft mit beschrankter Haftung. Circuits for producing a vertical aperture correction signal for television image transmitters. Comprising a first delaying device delaying the signal (Ao) by the time of one line period, a first differential amplifier whose two inputs are connected to the undelayed signal a second delaying device delaying the output signal of first differential amplifier and a second differential amplifier, the two inputs of which are connected to the output of the first amplifier.

130961. Void.

130962. Kamas Kvarnmaskiner AB, Apparatus for drying materials. Characterized in that in the container there is defined by means of gas permeable wall a space for the material to be dried and that the condensor for the refrigerant is disposed inside the container in said space at one side of the gas permeable wall the heat exchanger for condensing the moisture also being disposed inside the container.

130963. Cassella Farbwerke Mainkur Aktiengesellschaft. Process for the production of water-soluble dyes having an affinity for fibers. Reacting an aziridine compound with a dye or dye inter-mediate having a substituent thereon which is reactive with said aziridine compound.

130964. Bassani S.p.A. Conduits for the supply of utilities in hospitals and the like. Comprising a base plate having supports for electrical conductor and pipes, a cover the lower edge of which is hinged to the base plate and the upper edge being releasable secured to the base plate, the cover carrying a plurality of housing for elements, the said housings being covered by movable front walls.

130965. Bassan S.p.A. Conduits for the supply of utilities in hospitals and the like. Providing a housing for electrical outlets for lamps, electrical switches, power outlets; radio, television and like sorkets and pipes for supply of miscellaneous fluids like oxygen and compressed air.

130966. Robert Hosch GmbH. Postfach. 50, Stuttgart 1, West Germany. Improvements in or relating to control devices for fuel injection systems for mixture-compressing internal combustion engines with applied ignition. In which a measuring element being adapted to be moved proportionally to the air flow passing therethrough in response to difference between the all pressures obtaining in the induction pipe upstream and downstream of said measuring element against a restoring force which is as constant as possible, and being arranged to actuate a fuel metering valve so that a predetermined ratio of air flow and metered fuel flow obtains, which ratio is variable in that the quantity of air passing the measuring element is itself variable by virtue of a by-pass of the induction pipe which circumvents the measuring element and which is provided with a cross-section control element for varying the effective cross-sectional area of at least part of the by-pass and which can be actuated as a function of engine performance.

130967. Secto Company Limited. Insecticidal compositions. Comprising 2, 2 dichlorovinyl dimethyl phosphate containing 5-20 per cent by weight of dissolved hexachloroethane, para dichlorobenzene, naphthalene, naphthalene derivative, camphor or quinone.

130968. Void.

130969. Witco Chemical Corporation. Polymerization of unsaturates. Comprises bridging two active hydrogen containing materials one of which is an ester containing polymerizable C-C bonds and at least one of which cartaring a plurality of active hydrogen.

130970. Societe Fives Lille-Cail. Apparatus for the extraction by diffusion of soluble substances contained in vegetable material. Comprising several cells displaceable between a charging point and discharging point characterised in that each cell has a cover sliding inside the cell and a locking device to keep the cover at the desired height.

130971. (Mrs.) Dru Gulab Vaswani and (Mrs.) Nalini Prem Malkani. A two-piece suspender for sheet materials. Comprises a preshaped male member, and preshaped female member adapted to firmly engage each other, at least one of male and female members being provided with a suspension arm.

130972. D. S. Bist. Hydro Ropeway. Comprising floating buckets clipped at equal interval to an endless rope through lashing chains so that while the rope runs at a certain height above the water stream level, the weight of the bucket is carried by the water of the stream.

130973. Void.

130974. Dunlop Holdings Limited, formerly known as The Dunlop Company Limited. Flexible interconnectable hosepipe. (April 15, 1970). Comprises a first inner layer of hard abrasion resistent elastomeric material and at least one outwardly disposed second inner layer of resilient elastomeric material to cushion impacts on the first layer.

130975. Pfizer Corporation. Process of preparing 4-alkyldiphenylmethoxy-alkylamines. Process for preparing 4-alkyldiphenylmethoxy alkylamines which comprises reacting a substituted benzhydrol with an alkali metal compound in an inert solvent to form alkali metal alkoxide and then with an amino alkyl halide.

130976. Void.

130977. Sulzer Brothers Limited. A storage device for filamentary material. Including a storage member onto which filamentary material is wound and having a free end over which stored material is taken off.

130978. Void.

130979. Philip Morris Incorporated. Safety razor embodying blade pressure control. Comprising a handle assembly with pressure guard blade support housing a blade, both being mounted for floating pivotal movement and including bias means.

130980. Hindustan Lever Limited. Toothpastes containing corrosion inhibitors. (April 17, 1970). Characterized by the presence of corrosion inhibitor urea, gelatine or a water soluble salt of benzoic acid.

130981. Hindustan Lever Limited. Metal cleaning process. Wherein the objects are treated in a single bath or two consecutive bath containing precleaning agent and agent for total defating.

130982. Void.

130983. Brayton Cycle Improvements Associates. Refrigeration system heat recovery system, refrigeration gas compression system, and brayton cycle system. Having a gas or air compressor, a combustion chamber and an expander, means for fooling the gas entering the compressor to at least about 50°F below the ambient temperature with a cold refrigerant liquid, etc.

130984. Void.

130985. Treadwell Corporation. Improvements in or relating to waste heatworking fluid vapor generating system. Comprises heat exchangers, a means to supply waste heat gases thereto, a plurality of liquid receivers, flash chambers, pumping means, valve means vapor turbine means and a condensor.

130986. Treadwell Corporation. Apparatus for waste heat recovery from copper convertors. Comprises in combination a convertor capable of being turned to charge, exhaust and pour positions, a waste heat boiler, a retractable hood capable of forming a tight seal to the converter, an extendable conduit from the hood to be waste heat boiler and means for recycling a major portion of gases.

130987. Sumitomo Chemical Company., Limited. Process for the preparation of aromatic secondary or tertiary amino compounds. Hydrogen nitrobenzene and ethyl alcohol are reacted with presence of a copper chromite catalvst.

130988. Globe-Union Inc. Storage batteries and method for making same. Includes the steps of removing from about 70 to about 97 weight per cent of forming electrolyte, based on the total weight of the forming electrolyte in battery after completion of the forming step, by supplying an accelerative force to said battery.

130989. Void.

130990. P. P. Products. Improvements in or relating to a lock. Characterized in that the lever plate assembly of the lock has provision of an additional locking means consisting of additional horizontal slot in which the locking pin is made to move from its locked position in the previous slot by the second operation of the key.

130991. Void.

130992. BP Chemicals Limited. Phenol derivatives. Comprises reacting together phenol and an olefin having from 2 to 8 carbon atoms in the molecule in the molar ratio 1:2n+0.08, wherein n is the number of carbon atoms in the molecule of the olefin, over an acid-activated earth at 100-200°C.

130993. Imperial Chemical Industries Limited. Glass reinforced polymer composites. (April 17, 1970). Comprises adding an inorganic glass having a transformation temperature in the range of 100-400°C to an organic thermoplastic polymer and the product is subjected to deformation process.

130994. Dunlop Holdings Limited. Flexible containers. Flexible sheet comprising one layer of fabric woven from a thread formed from sheet filaments and one layer of flexible elastomeric material.

130995. Applied Power Industries, Inc. Freely positionable force distributing device. Comprises a freely positionable force distributing device having base member, retaining means carried by said base member, and anchor means carried by said base member.

130996. Applied Power Industries, Inc. Self-stabilizing force distributing apparatus. A plurality of pivotally connected interacting members each of said members connected relative to the other members such that the forces transmitted by each intersects a common axis substantially normal thereto.

130997. Council of Scientific and Industrial Research. A new process for the preparation of tamarind kernel powder from the seeds of tamarindus indica linn. Characterized in that broken dehusked seeds are subjected to decolourisation and extraction, using acetone or alcohol as extraction solvent.

130998. F. Hoffmannla Roche & Co. Aktiengesellschaft. Phenyloxy derivatives, process for their preparation and pest controling compositions containing the same. Reacting a halogenated hydrocarbon with a phenol.

130999. Void.

131000. Labor Muszeripari Muvek. Laboratory Kneader. Characterized by one of the kneading arms being in junction with sunwheel through a satellite wheel whereas the other kneading arm is in junction with sunwheel through a satellite wheel and another satellite wheel fastened to epicyclic gear bridge, satellite wheel of one arm meshing with satellite wheel of another arm.

131001. Scharfenbergkupplung G.m.b.H. Device for absorbing excessive thrust. A first hollow cylinder surrounds a second hollow cylinder and they are separated by a gap the frusto-conical free end of a third hollow cylinder projects into the said gap.

131002. Dr. C Otto & Comp. G.m.b.H. By product coke oven. Comprising a separate heating for distribution conduit connected to each of the groups of burners, and a separate pressure control valve for each conduit, whereby the pressure of gas supplied to either of the groups of burner can be dependently regulated.

131003. Void.

131004. Void.

131005. Void.

131006. Void.

131007. Oei Ahamed Basha. A device for the frying and de-husking grams and peas and the like. Comprising of a gear adjustment being driven by a motor for easy rotation with step down pulley attached thereto, having a barrel in hexagonal shape with two opposite channels inside it.

APRIL 17

131008. D. G. Takte. Catalytic process :—Ammoxidation of hydrocarbons. Ammoxidation of alkanes (e.g. propane and isobutane) into unsaturated nitriles (e.g. acrylonitrile and methcrylonitrile respectively) by using antimony oxide containing catalyst and a chloro-alkane in the feed gases. Comprising contacting a gaseous mixture of the hydrocarbon, ammonia and oxygen with antimony oxide alone or in combination with other metal oxides which is maintained in presence of halogen.

131009. D. G. Takte. A catalytic process for synthesis of adamantane. Comprises pressing vapours of tetrehydrotricyclopentadiene over supported palladium catalyst in H_2 stream at 200—500°C and heating the product with $AlCl_3$.

131010. Void.

131011. Annamma Abraham. Improvements in or relating to printing type systems. Comprises types having bodies or reduced height said body being provided with grooves supporting members and plates having projections adapted to engage with said grooves.

131012. Wilkinson Sword Limited. Improvements in razor blades. (April 17, 1970). A razor blade having two different superposed coatings on at least a cutting edge, each coating being of a metal, a metallic compound, a silicon compound or an alloy of any of the foregoing.

131013. Manuel Punsola Fabregat. Improvements in the manufacture of a wiping ring or piston ring. Comprises forming a split ring like member from a bar like element of metal positioning and pressing it in a die assembly to form an annular interior groove and inserting in it a split ring like expandes spring.

131014. Pfizer Inc. Process for recovering pure trans-isomer of 2-chloro-11-(3-piparazinylidene)-6H-dibenz [b, e] oxepin. Comprising dissolving the oxepin in the form of acidamine salt in aqueous solution of metal salt, crystalizing and separating and cooling the filtrate and recrystallihg them.

131015. Messerschmitt-Bolkow-Blohm Gesellschaft mit beschrankter Haftung. Improvements in centrifuge rotors. (February 16, 1971). Characterized by the fact that material of the ring and the casing show same expansion properties under the effect of centrifugal force and the surfaces for their connection are situated outside the range of action of the bending stresses occurring at transition point between cover and ring.

131016. Void.

131017. Void.

131018 K. Balachandran. Improvements in or relating to containers. Comprises a body having a mouth and consisting of two parts which are detachable from and attachable to each other, the part incorporating the mouth being provided with means adapted to close the mouth and also serve as a base.

131019. M. V. R. S. Rao and Smt. Uma Sivaswamy. A device to prevent tampering with, or theft of, automobiles. Having a plurality of multi-position switches, one set of which is adapted to be connected to the electrical circuit of ignition system of automobile and also to alarm signal means and the other set capable of cutting in a shunt across contact breaker points of distributor of ignition system.

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131020. Council of Scientific and Industrial Research. Improvements in/or relating to deashing of natural graphite at high temperatures. Heating to fused state a mixture of finely ground graphite and excess of sodium hydroxide in metalic container followed by washing with hot water and leaching with hot and cold dilute HCl, characterise=that fused mass of graphite and sodium hydroxide is poured over a metallic flat surface.

131021. Council of Scientific and Industrial Research. A process for removing oxide coating from zinc dust/powder by a chemical method. Treating oxide coated zinc dust with a chemical solution containing ammonium sulphate or ammonium chloride or any other ammonia salt dissolved in water containing ammonia.

131022. Council of Scientific and Industrial Research. Process for hydrocarbon purification by selective hydrogenation. Comprises passing a hydrocarbon mixture along with a hydrogenation gas in the vapour phase through two reaction zone containing fixed bed hydrogenation catalysts, at a temperature of from 10—180°C and 0 to 120°C respectively, the pressure in the second reaction zone being higher than in the first reaction zone.

131023. Council of Scientific and Industrial Research. A process for the production of resinous condensation products from aromatic compounds such as xylenes, naphthalene, alkyl naphthalenes, acenaphthene, fluorene, phenathrene, anthracene carbazole and the like. Process for the production of thermoplastic resinous condensation products by the reaction of an aromatic compound with an aldehyde in the presence of sulphuric acid which is characterised in that the reaction is effected in the presence of aqueous sulphuric acid (-1-5-mols) such that the concentration of the acid in the overall mixture is 20—45% w/w, carrying out the reaction a temeprature of 80—120°C for 2-15 hrs. taking the product in an solvent, separating it, distilling off the solvent to obtain the condensation product which is subjected to thermal treatment at atmospheric or reduced pressure.

131024. Amitava Ghosh Dastidar. Method of constructing in situ thin diphragm walls. Comprising cutting a thin trench or excavation of desired length and depth, lowering therein a stiff laminar framework with an impervious membrane on at least one face thereof and feeding cement mortar/slurry/concrete.

131025. Void.

131026. RCA Corporation. ATM 01 mode exciter and a multi-mode exciter system using same. Comprising a rectangular waveguide structure having a pair of aperatures disposed in one its broad walls, and a circular waveguide structure jointed normal to said one broad wall, with the circular waveguide structure symmetrically dispossed relative to said apertures.

131027. Void.

131028. Joseph Lucas (Industries) Limited. Electrical switches. (May 2, 1970). Comprising first and second hollow body parts, a switch operating member a resilient diaphragm trapped between said first and second body parts, a plunger, contact plate movable with said plunger and a pair of fixed contacts.

131029. Joseph Lucas (Industries) Limited. Lamp failure warning systems for road vehicles. (May 2, 1970). A switch movable from a first position to a second position to energises the lamps, current sensing means in series with the lamps, and means operable when switch is in its first position for passing current through both tamps without illuminating them and giving warning if both lamps have filed.

131030. Void.

131031. Golden Plastics. A revolving stood. Comprising two bell shaped hollow stands open at wider ends and closed at narrower ends, a bearing between the narrower ends connected by bolts and nuts acting as pivot, one of the wider ends being fitted a cap-shaped cover acting as a seat.

131032. Aktjubinsky Zavod Khromovykh Soediney. Continuous process for production of chromic anhydride. Feeding mixture of sodium bichromate and sulfuric acid, in a flow, to a horrizontal rotating cylindrical reactor and supplying heat to said flow by feeding gaseous fuel combustion products over the surface of the flow of reagents.

131033. S. Z. Vasiliev, I. I. Maergoiz, L. A. Mikhailov and A. E. Lifshits. Adsorber. Hollow housing filled with absorbing material arranged as a leyer through which is forced a gaseous medium to the purified, inner walls of the housing being provided with projections disposed substantially transverse to the direction of movement of the gaseous medium.

131034. Void.

131035. The Slick Corporation. Abrasion resistant venturi scrubbers. Ceramic blocks carrying fixing means to fix to venturi walls, blocks having front surfaces directed away from the venture wall and rear surfacer directed towards the wall and having continuous uninterrupted surfaces at the front.

131036. Redpath Dorman Long (Contracting) Limited formerly known as Redpath Dorman Long Limited. Manufacture of parallel wire strands. (April 20, 1970). Comprising leading wires from swifts through guides to bring their leading ends together, attaching the bunched leading ends to a wide hauling attachment, hauling out the bunched wires to form a strand, securing ties or wraps along the strand as it is hauled out, attaching the leading and trailing portions to a tensioning device for tensioning to a predetermined tension and fixing sockets to each end of the so formed strand.

131037. Sandvikens Jernverks Aktiebolag. Tool holder for rock milling cutter. Comprising shank mounted with a cutter and holder in which shank comprises groove and tongue connection converges so that holder is carried by wedging action of the connection.

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131038. Void.

131039. BP Chemicals Limited. Phenol derivatives. Comprises reacting together phenol and an olefin having from 2 to 8 carbon atoms in the molecule in the molar ratio 1 : 1n+0.05 wherein ni is the number of carbon atoms in the molecule of the olefin, over an acid-activated earth at 100—200°C.

131040. C.A.V. Limited. Liquid filter units. (April 25, 1970). In which the closure comprises a cylindrical plug, an annular closure plate secured to the periphery of the can, said plug having a peripheral flange and being provided with a pair of apertures.

131041. Pfizer Inc. Trialkoxy Quinazolines, (September 9, 1970). Reacting 2-halo-4-amino-6, 7, 8-trialkoxyquinazoline with an amine.

131042. John Norrie McArthur. Microscope. (April 22, 1970). Wherein body having an aperture on the optical axis of the condenser at the side of the condenser which is remote from the objective reflector means disposed within body and movable transversely of the optical axis of the condenser at the side of the condenser remote from the objective, reflect or means having a first positions in which it intercepts the optical axis and second position in which it does not intercept the optical axis of the condenser thereby to permit viewing through aperture of a subject magnified by the condenser.

131043. Rodio Foundation Engineering Ltd. and Hazarat & Co. Joint for underground diaphragm wall panels and method of constructing the same. Excavating trench for primary panel, positioning a forming tube at that end of the trench adjacent which a secondary panel is to be constructed, primary key tube being fixed to the forming tube, lowering reinforcement into the trench and concreting, removing the forming tube after initial set to form a groove, excavating another trench for secondary panel, positioning in the groove a secondary tube consisting of two spot welded pipes, lowering reinforcement into the trench and concreting, removing the secondary key tube to form an elongated double slot at the joining line of the panels, smoothening the slot to form a rectangular slot, lowering reinforcement into the slot and concreting.

131044. General Electric Company. Process for producing a sintered cobalt-rare earth intermetallic product. A process for producing a sintered cobalt-rare earth intermetallic product which comprises providing a particulate mixture of a base cobalt-rare earth metal alloy, and an additive cobalt-rare earth metal alloy, said base alloy existing at sintering temperature as a solid Co_5R intermetallic phase and said additive CoR alloy existing at sintering temperature as at least a partly liquid phase, or as a solid, said base alloy and said additive alloy each being used to form a mixture which has a cobalt and rare earth metal content substantially corresponding to that of the final sintered product, pressing said mixture into a green body, and sintering said green body in a substantially inert atmosphere to produce a sintered product containing a major amount of the Co_5R intermetallic phase and up to 35 per cent by weight of the product of a second CoR intermetallic phase which is richer in rare earth metal content than said Co_5R phase, where R is a rare earth metal or metals.

131045. Meiji Seik Kaisha Ltd. Improved methods for the production of bland vegetable protein products. Inoculating an edible micro-organism selected from lactic acid bacteria, propionic acid bacteria and yeasts to a water soluble vegetable protein material, incubating the inoculated slurry at 15° to 40°C.

131046. Shinetsu Chemical Company. Process for preparing polyvinyl chloride by suspension polymerization. Characterized by coating the surface of polymerization vessel, prior to polymerization, with a coating compound selected from the group consisting of polar organic compounds, organic dyes, inorganic pigments and mixture thereof.

131047. Nippon Kayaku Kabushiki Kaisha. Process for the preparation of substituted 4-nitrodiphenyl ethers. Condensing an appropriate phenol with p-chloronitrobenzene in the presence of acid binding agent and of desired oxidising the resultant product with an oxidising agent.

131048. Institutul De Cercetari Si Proiectari De Masini Agricole. Plough with variable working width. A supporting frame on which plough bodies are mounted, means for varying the working width of the plough bodies which comprises a bar by which plough is fitted to the tractor, said bar being mounted in two spaced supports, one of the supports being in a fixed position while the other being adjustable to different positions.

131049. Void.

131050. Void.

131051. Daiichi Seiyaku Co. Ltd. Process for the preparation of pantetheine-S-sulfonic acid derivatives and salts thereof. Comprises treating pantetheine with ammonia solution containing sodium sulfite.

131052. Research Foundation for Microbial Diseases of Osaka University. Process for preparing live virus vaccines. Comprises employing a quail embryonated egg or a tissue culture of a quailembryo fibroblast for cultivation of the virus subjecting a virus to successive cultivation of a sufficient number of passages to propagate the virus wherein at least one passages of said successive cultivation is effected in a culture host selected from the group of a quailembryonated egg and thereafter isolating the purifying the vaccine for standard technique.

131053. Rotablock Limited. Improvements in or relating to roof and wall structures more particularly of heat enclosures. (April 28, 1970). Whereby the block may be pivoted about one of the subsidiary support members into and from installed position without disturbing its fellow-blocks.

131054. Void.

131055. Nissan Chemical Industries Ltd. Wet process for production of phosphoric acid and gypsum. Mixing phosphate rock with phosphoric acid and adding H. SO. to the slurry formed at different stages.

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131056. Void.

131057. Council of Scientific and Industrial Research. Improvement in or relating to a radiant heating platen for freeze drying plants or other driers using radiant heating. Wherein two cover plates made of high emissivity material are fastened at the top and bottom of the tube coil by means of bolts therefor, and the space between the tube and cover plates being filled with aluminium foils to promote heat conduction and uniform temperature.

131058. Uss Engineers and Consultants, Inc. Improved slidable gate construction for use as a closure on a bottom-pour vessel. Comprising a nozzle body providing a passage for the molten metal, wherein the upper surface of the nozzle body is located below the upper surface of the gate which comprises a gate body, said gate body being provided with an opening receiving the nozzle body.

131059. Girling Limited. Improvements in or relating to brake adjuster mechanisms for drum brakes. (May 1, 1970). Comprising a non-rotatable housing, an internally screw threaded tubular adjusting member, a sleeve member, and an externally screw threaded adjusting member.

131060. Agfa-Gevaert N. V. Photographic silver halide element. (June 4. 1970). Comprises a radiation-sensitive silver halide emulsion layer and a hydrophilic colloid outer layer containing a fluorinated surfactant and polymethyl methaccylate.

131061. Gosudarstvenny Vsesojuzny Institut Po Proektirovan-Predprlyaty Koxxokhimicheskoi Promyshlennosti. Horizontal coke oven. Within the hearth flue in the section of input of the heating gas into this flue there is formed a chamber adjacent to the two regenerators which are the first as viewed in the direction of the heating gas flow.

131062. Gosudarstvenny Nauchno-Issledovatelsky Institute Stroitelnykh Materialov I Izdely and Krivorozhsky Metallurigichesky Zavod Imeni V. I. Lenina. Method for the production of building materials from molten slags. Wherein from the total amount A of air to treat the molten slag in "n" stages makes (1.5-23 A/n, with the amount of air supplied stages makes (1.5-2) A/n, with the amount of air supplied to the successive stages being gradually decreased, while from the total amount B of water to treat the molten slag in "n" stages of treatment the amount of water used in the successive stages being gradually reduced. number of stages of treatment being so selected that the slag escapes from the last stage in the pyroplastic stage.

131063. Ordena Lenia Institut Elementoorganicheskikh Soedineny. Method of producing protein-Containing foodstuffs of fibrous structure. Preparation of colloidal solutions from protein containing food substances with conventional jellying agents followed by coagulation of food substances from said colloidal solutions, isolation of said coagulated food substances with the introduction of flavouring, aromatizing and dying agents.

131064. Leningradskoe Proektno-Experimentalnoe Otdelenievsesojuznogo Gosudarstvennogo Nauchno-Issledovatelskogo I Proektnogo Instituta "Vniiproektelektromontazh. Composite steel-aluminium anode rod for electrolysis of aluminium and method of making the same. Comprising an aluminium bar having tail portion a steel rod having two portions one portion having a socket to fit tail portion second portion being but welled to tail portion.

131065. Vsesojuzny Nauchno-Issledovatelysky Institut Legkogo I Textilnogo Machinostroenia. Warp thread tension device in a loom. Comprising a beam rotatable on an axle with warp threads wound thereon and a drum connected with the beam axle and having inner blades.

131066. British Railways Board. Improvements relaing to support systems for the seated human body. (April 22, 1970). [Addition to No. 124157]. The side edges of the upwardly extending length of material are each attached to the supporting frame to cause the material to define projecting support.

131067. Index S. A. Improvements in or relating to window hinge devices. Comprising a stationary part having guiding and supporting means and engaging means spaced therefrom, and a pivotable part pivotably supported on the stationary part and having a portion in which on pivot pin mounted, said portion encompassing said guiding and supporting means, abutting means being disposed on the pivotable part to engage said engaging means on the stationary part.

131068. Index S. A. Improvements in or relaing to window, door or like assemblies. Comprising a metal frame, one or more fittings attached to the frame by screws secured in the frame by nut plates arranged internally of the frame, said plates having at least two screw receiving openings and at least two bosses projecting from a face thereof containing the openings, said bosses engaging in corresponding spaced apertures or recesses in the frame.

131069. Index S. A. Improvements in or relating to window structures. Including a movable sash in a frame, a blind with at least one cord operatively connected thereto, each cord being arranged to extend within and along one side of the sash, passing through an opening in the sash to exterior of the window structure, and provided with means to facilatate grasping of the cord and means for securing the cord relatively to the sash.

131070. Index S. A. Improvements in or relating to window frame structures. Comprising a U shaped frame member the arms and base of which define three sides of the frame and a further member connecting the free ends of the U-shaped member and having portions overlapping said ends, the member, being secured by screw means passing through the ends of the U and threaded into the further member and by screw means passing through the overlapping portion of the further member and threaded into the ends of the U.

131071. Index S. A. Improvements in or relating to machining apparatus. Comprising a base having an elongated bed, work holders means on carriages movable along the bed, each work holder means comprising means for supporting the piece of material and tool means and means for operating the tool carrier means simultaneously to machine different parts of the piece of material.

131072. Index S. A. Improvements in or relating to window frames. Comprising an inner and an outer frame portions attached together by mating connecting means thereof to provide an interlocked joint, heat insulating material being interposed between the overlapping surfaces of the connecting means.

131073. Void.

131074. Void.

131075. Void.

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131076. Council of Scientific and Industrial Research. Improvements in or relating to a catalyst and a process for the production of anthraquinone. Characterized in that the silica gel support was treated in the mineral acid at 100° for 2-15 hours dried to 5-20% moistrue content, impregnated with a mixed water solution containing V_2O_5, one or more oxide of elements of Groups VI, VII and VIII of the periodic table and alkali metal salt, impregnated support subjected to 450-550°C temperature, cooled to 30°C in 10-12 hours, and subjected to a heat treatment 600-1000°C.

131077. Halcon International. Process for preparing ethylene glycol esters. [Divided out of No. 122893; antedated to August 25, 1969]. Contacting at a temperature above the ambient temperature, ethylene, molecular oxygen, a carboxylic acid and a catalyst comprising bromine and tellurium in liquid phase and maintaining the pH of the liquid phase below 2.

131078. Halcon International, Inc. Process for preparing glycol esters from olefinically unsaturated compounds. [Addition to No. 122894]. Comprising contacting at a temperature in the range of from 50° to 200°C of an olefinically unsaturated compound other than ethylene and molecular oxygen with a carboxylic acid and a catalyst comprising a non-basic form of bromine and tellurium metal and maintaining the pH during the course of the reaction at less than 2.

131079. Halcon International, Inc. Process for preparing glycol esters from ethylene and propylene. Comprises treating a solution containing less than 0.8 weight % of the hydrocarbon and a carboxylic acid in a liquid phase reaction medium with oxygen in presence of a suitable metal ion and at least one of bromine, chlorine or a compound containing either bromine or chlorine.

131080. E. R. Squibb & Sons, Inc. A process for preparing a peptide. Comprising introducing by conventional methods to the Trp-terminal portion of a peptide Trp-Pro-Y-Pro-B, wherein Y is arginene histidine, lysine or glycine and B is hydroxy or Z-ile-Pro-Pro wherein Z is asparagine or glutamine.

131081. Ruti Machinery Works Ltd. Arrangement for holding weft threads. On one side of the sloy at least a first retaining member which moves with the sley and at least a fixed second retaining member, and a blower means for producing a stream of air is fitted on other side of the sley.

131082. Void.

131083. A. A. Tupolev, Y. M. Serebriisky, G. A. Cheremukhin, V. N. Arnoldov, V. A. Sterlin, M. Y. Blinchevskv and A. V. Petrov. A devile for balancing an airplane during its take-off and landing. Comprising extensible wings having a great elongation and a profile of great relative curvature, means of mechanization of said wings.

131084. Shinetsu Chemical Company. An improvement in a method for polymerizing vinyl chloride. Comprises carrying out the reaction in a medium which does not dissolve the copolymer in presence of a catalyst comprising acetylcyclohexyl sulfonyl peroxide and a number selected from tertiary butyl peroxy pivolate diisopropyl peroxydicarbonate, di-2-ethylhexyl peroxy dicarbunate α, α-azobis-2, 4-dimethyl valeronitrile or mixtures thereof.

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131085. Council of Scientific and Industrial Research. A hand operated below pump. Comprises a metal casing having an inlet at its bottom and discharge outlet channel at its enlarged top end the inlet pipe being provided with a polythene nonreturn foot valve assembly, a bellow being provided in the metal casing, top end of the bellow is open for discharging the pumped water through discharge outlet channel and its bottom end being connected to the actuating steel rod through perforated cup assembly fixed at its centre well within the bellow, a lever is connected to the actuating the bellow, the perforated cup assembly being provided with a polythene valve.

131086. Void.

131087. Joseph Lucas (Industries) Limited. Control apparatus for a gas turbine engine. (April 25, 1970). Means responsive to servo-pressure signals and operable to move the nozzles, means for generating a fluid pressure, valve means operable by electrical signals to derive said servo-pressure signals from said fluid pressure.

131088. Joseph Lucas (Industries) Limited. Fuel control system for gas turbine engine. (April 25, 1970). Comprises a first flow restrictor downsteam of the pump, a pressurising valve in series with said restrictor on the downsteam side thereof, a second flow restrictor connected in parallel across the series combination of the first flow restrictor and pressuring valve.

131089. Void.

131090. Progil. Process for preparing chlorine and alkali phosphate solution by electrolysis and electrolytic cell for carrying out the process. Introducing continuously an alkali-metal chloride solution into anode compartment and phosphoric acid or an alkali metal phosphate solution into cathode compartment in electrolytic cell having a cationic selectively permeable membrane between the anode and the cathode, the anode being porous and only the surface of to which do not face the membrane being electro-chemically active, and removing chlorine and alkali metal chloride solution from anode compartment and hydrogen and phospate solution from cathode compartment.

131091. Gosudarstvenny Ordena Trudovogo Krasnogo Znameni Vsesojuzny Proektny I Nauchno-Issledovatelsky Institut Tsementnoi Promyshluennosty. Aerating bottom of silo tower for mixing powdered materials. Transverse partitions are arranged across each air distributing box and forming a number of isolated compartments, perforated pipes for feeding compressed air, each passing through the compartments inside the air distributing box.

131092. N. Jain. Device for suspending a curtain from a curtain rail. Comprising an elongated pelmet being integral with the support member, of the support member has a flange at the foot.

131093. Zellweger Ltd. Apparatus for the gradual registration of measuring values on a common recorder. Comprising recorder (for recording or paper chart) having photo-electric means which will convert reference marks to control signal which will operate paper chart and select measuring values, said photo-electric means having light source and light sensitive elements.

131094. Zellweger Limited. Automatic electronic controller and a textile machine incorporating the same. (April 19, 1971). Incorporating a circuit having a temperature detector arranged to produce by the movement of textile material of change in the output signal in the circuit through the change in temperature of the temperature detector by motion of atmosphere surrounding it, and/or by contact between the textile material and temperature detector.

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131095. W. L. Gore & Associates, Inc. Porous material made of a tetrafluoroethylene polymer, and process for preparing the same. In the form of film tube continuous filaments, rod-like in form, of which material has a crystallinity 98% a micro structure characterized by nodes interconnected by fibrils and a matrix strength 7300 p.s.i.

131096. Bidyut Baran Paul. Float valve for water closets. Consists of a throttling chamber the inlet end of which is connected to the main water conduit, the inlet end having provided therein a cylinderical channel which houses matingly a shaped rubber valve such that the seat of said valve remains inside channel.

131097. Bau-Stahlgewebe GMBH. Heat treatment process for non-alloyed low-carbon structural steel for improving the physical material properties. Heat treating non-alloyed low carbon structural steel in cold-deformed condition heated between 600—1300°C, quenched till a core temperature of 450°C is reached.

131098. Institut Francais Du Petrole, Des Carburants Et Lubrifiants. Process for dehydrogenating saturated hydrocarbons. Comprising contacting the hydrocarbons with a catalyst containing (a) alumina, (b) rhenium and (c) tungsten or molydenum.

131099. Montedison Fibre S. p. A. Process for the bulk polymerization of acrylonitrile. Characterised in polymerising acrylonitrile with radicalic catalytic system with decomposition rate constant greater than 1 hr^{-1} m. conc. of 2.10^{-3}. Q moles/1t, Q being reaction time in hours.

131100. Void.

131101. Mefina S. A. Fuze for a non-gyratory projectile. Characterised in that stop is formed by a second firing pin capable of detonating the secondary fuse once the latter is in armed position, second firing pin being borne by a plunger or ram capable of axial sliding in the primary fuse holder against the action of a spring, a ball blocking mechanism fixing rigidly to one another primary fase holder and plunger as long as the projectile has not been subjected to an impact after the departure of shot.

131102. Joseph Lucas (Industries) Limited. Bulbholders. (May 2, 1970). Including an insulating body and a first and second conductive strips connected to the body the free ends of each engage a first and second bulbs to form a first and second electrical connection to the bulbs.

131103. Imasco Limited. Pneumatic separator with recirculation of air. Comprising a separating chamber, means for circulating air upwardly through said chamber, an inlet for thrusting particles to be separated into and across the member, means for collecting and carrying the heavier particles from the chamber, and an air jet impeller in said separating chamber for thrusting the heavier particles, and any lighter particles entrained therewith, across the chamber in a direction opposite to the direction in which the inlet impeller thrust the particles.

131104. Void.

131105. Hindustan Antibiotics Ltd. Improvements in the process for the preparation of amyloglucosidase. Subjecting a variety of Aspergillus candidus, aureus strain No. N.C.L. (M 1020) H.A.C.C. A. 32 or natural or artificial variant or mutant thereof to submerged culture.

131106. Void.

131107. Navlodyam. Fruit plucker. Comprising a ring supported diametrically at the two ends of a hollow tube through which another tube is telescopically arranged to move inside the other, a tension spring, knives, guides and arched shaped levers.

131108. Void.

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131109. Council of Scientific and Industrial Research. Improvements in or relating to the manufacture of wettable crust leather from hides and skins. A process for the manufacture of wettable crust leather from hides and skins which consists in pickling and tanning the same with either zirconium salts alone or a combination of chrome and zirconium salts characterised in that the pickled pelt is treated prior to tanning with naphthalene sulphonic acid and formaldehyde.

131110. Joseph Lucas (Industries) Limited. Fault detection circuits E. G. for use in road vehicles. (May 26, 1970). Includes a warning device, a switching device, a detector for detecting the presence or absence of a fault, circuit connections for controlling switching device, and a timing net work.

131111. ACF Industries Incorporated. Electronic fuel injection system. Includes a comparator circuit for producing an output pulse when the ramp voltage reaches a predetermined level, means for terminating rectangular pulse in response to the comparator output pulse, and means for feeding the rectangular pulse to a fuel injector valve.

131112. Lansing Bognall Limited. Improvements in pedestrain operated industrial trucks. (May 4, 1970). Comprising a reversible driving motor controlled by control means coupled with connecting linkage by a releasable connection, a displacable element to release said connection allowing the linkage to return to the neutral condition thereby stopping the truck.

131113. Void.

131114. Void.

131115. Void.

131116. Void.

131117. Armour Hess Chemicals Limited. A method for treating fertilizers in particulate form. (April 27, 1970). Comprises coating fertilizer with liquefied coating composition of wax like substances of melting point of 40 to 120°C and organic nitrogen surfactant compound.

131118. Sandall Precision Company Limited. Improvements in or relating to fluid control valves. (April 27, 1970). In the valve, first means are provided for continuously rotating the spool when pressurized fluid is supplied to the inlet post and second means are provided for varying the fluid pressure supplied to the chamber at each end of the spool.

131119. Snam Progetti S.p.A. Process for the production of unsaturated nitriles. Passing a gaseous mixture of an olefin, Ammonia and oxygen over a catalyst composition comprising mixed oxides and for oxycompounds of uranium and tellurium.

131120. John Harold Barwell. A method of, and an apparatus for, applying tread material to a tyre or wheel, and a tyre or wheel so obtained. (May 7, 1970). Comprises extending tread material under pressure directly on to the underlay with a profile corresponding to the required tread profile.

131121. Sandoz Ltd. A process for the production of basic azo dyes. Comprises compling the diazo compound of an amine with a coupling component.

131122. Societe Fives Lille-Cail. Sealing device for rotary tubular oven drier or cooler or similar apparatus. Comprising a first annular joint formed by flexible metal scales fixed to hood in overlapping relationship and supported on the tubular body, a second annular joint constituted by a ring, and an annular chamber between two joints being maintained at a pressure level close to that prevailing in the tubular body.

131123. N. V. Philips Gloeilampenfabrieken. Removable shaving-hood unit of a dry-shaving apparatus. Skin tightening member, which is arranged so as to locked against rotation, is maintained in engagement with a separate member for vertical adjustment by spring force.

131124. Orissa Cement Limited. Refractory bricks and lining kilns with said bricks. Working pace of the brick is tappered at three or four sides, thereby leaving tapering gaps between adjacent bricks, wherein each taper may being from a distance which is at least 1/4th of the thickness of the lining from the cold face of the brick.

131125. Void.

131126. Combustion Engineering Inc. Chemical recovery process for polysulfide pulping system. Comprises the steps of (a) washing the digested pulp containing the polysulphide spent liquor in an oxygen-free atmosphere (b) adding NaHCO, (c) carbon atom, (d) vacuum strippling of H_2S_3 produced, (e) precipitation of lignin followed by (f) conversion of the spent liquor to white liquor, (g) converting H_2S to elemental sulphur and (h) reacting this with white liquor.

131127. Tsentralny Nauchno-Issledovatelsky I Proektno-Experimentalny Institut Inzhenernogo Oborudovania Gorodov, Zhilykh I Obschestvennykh Zdany. Airconditioning installation. Comprising a main surface heat exchanges into the air path of which air to be conditioned is supplied, a main mixing heat exchanges wherein air is used for cooling liquid water, serving as the intermediate cooling agent in main surface heat exchanger, at least one auxiliary surface heat exchanges and at least one auxiliary mixing heat exchanges having the respective and paths thereof communicating through air path of main surface heat exchanges with the air inlet conduit of air path of main surface heat exchanges.

131128. M. K. Kulkarni. An improved swing chair, Wherein the stand comprises two vertically arranged parallel rectangular frames connected by a pair of the bars at the bottom and a pair of bearing axies at the upper portion, the four rocher arms being suspended from the ends of the extended portions of the bearing axles to swing out the axles, two lower bearing axles being fitted out the suspended lower ends of each pair of rocker arms and the chain is fitted to a pair of side frames freely mounted on the free ends of the lower bearing axles.

131129. Void.

131130. Incomex Enterprises Private Limited. An improved process for shot blasting. As characterized in that the employment of granules obtained by cleaning, washing, drying and grinding of copper slags.

131131. Incomex Enterprises Private Limited. An improved process for manufacture of abrasives and abrasives so manufactured. Characterized in that the copper slag after the extraction of copper is dried and subsequently granulated in a grinder to form granules of requisite size.

131132. H. Singh. Improvements in or relating to a pencil. Consisting of three parts, a central barrel with a continuous hollow portion, a hollow portion detachably joined to the barrel and a screw threaded rear cap.

131133. Void.

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131134. Void.

131135. Void.

131136. Void.

131137. Madras Christian College. Improvements in or relating to the purification of vegetable oils. Comprising removing minute quantities of complex compounds of iron, copper and manganese from the oil by known chrometographic techniques viz. treatment with a cation exchanger and agitating with -cellulose (rayon grade).

131138. Void.

131139. Dunlop Holdings Limited. Contact adhesives. (April 28, 1970). Containing a solution and/or dispersion of a polychloroprene in a non-aqueous liquid and a hydroxy substituted fatty acid or a derivative of said acid.

131140. Joseph Lucas (Industries) Limited. Suppressors for road vehicles. (June 5, 1970). Comprising a body a plug member, a socket member, a suspension registor supported by said body and electrically connected between plug member and socket member.

131141. Ciba-Geigy AG. Process for the manufacture of anthraquinone dyestuffs which are staringly soluble in water. Reacting an appropriately substituted anthraquinone compound with a compound which introduces an acyl radical, the starting material being so chosen that the final dyestuff does not possess any groups which dissociate in water to given an acid reaction and impart solubility in water.

131142. Detroit Coil Company. Alternating current solenoid. Thermosetting resin block encapsulates and structurally integrates c-shaped core, coil and electrical connectors leaving the ends of the electrical connectors exposed for connection to energising circuit.

131143. The National Cash Register Company. Sheet or ribbon carrying on one of its surfaces a detectable marking composition and composition for manufacture of the same. Including a polymeric binder and a thermoplastic aminotriazine-sulphonamide aldehyde copolymer and electrically optically or magnetically detectable material.

131144. Void.

131145. Void.

131146. International Standard Electric Corporation. D. C. signal bilateral transmission system. Comprising two signalling units connected to a junction each signalling unit includes a receiving circuit with receiving relay and a transmitting circuit with a first diode connecting signal source to the junction and a second diods connecting signal source to d. c. source.

131147. Void.

131148. International Standard Electric Corporation. Improvements relating to the transmission of audio signals in television systems. [Addition to No. 129186]. Comprising a transmitter having a storage device arranged to store samples of one or more of the audio signals occurring during the frame period and to transmit the stored signals as a time-compressed signal, a receiver having have at least one storage device arranged to store at least one of the received time compressed signals with a chosen upper frequency limit.

131149. Swiss Aluminium Ltd. Electrolytic cells for the production of aluminium. In which the cross section of the iron cathode bare on each side of the central length of the bar which tie beneath the anodes is less than that of the central lengths of the bars.

131150. Prolizenz AG. Continuous casting of metal. In which before the start of casting, a pair of electrically insulated contact wires are clamped between two successive mould halves and casting is started by flow of metal into the mould until the wires are short circuited.

131151. Sandoz Ltd. Process for the production of azo compounds of low solubility in water. Characterized by diazotizing 2-amino-3-bromo-5nitrobenzonitricle and coupling the resulting diazonium salt with 1-N, N-diethylamino-3-(3-methoxypropionyl)-anilide.

131152. Sandoz Ltd. Process for the production of azo compounds of low solubility in water. Characterized by diazotizing 2-bromo-4, 6-dinitroaminobenzene and coupling the resulting diazonium salt with 1-C ($3'$-methoxypropionyl)-amino-4-ethoxy-3-N-β-cyanethylaminobenzene.

131153. Sandoz Ltd. Process for producing derivatives of α -cyanacrylic acid. Characterized by condensing 3-acetyl dibenzofuran with cyanacetic-n-octylester.

131154. Kharkovsky Aviatsionny Institut. Device for cutting moving ingots, tube skelps and rolled stock. Comprising two cutters arranged in one plane, a pulse chamber with a rod which carries one of said culters with a space for guiding said rod and a space filled with warking medium, an anvil with the rigidity secured second cutter, the anvil being rigidly connected with the pulse chamber and a damper for quickly spreading apart said cutters.

131155. S. M. T. Swame. A device for supporting the bearing housings of rings spinning frame and ring doubling frame, spindle drive systems. Comprises a base member, a supporting member means for enabling the position of the supporting member, means for fastening the supporting member to the base member said supporting member having a recess for receiving bearing housing of the spindle drive system.

131156. Kirloskar Oil Engines Limited. A new and useful method of manufacturing an improved ceramic fuel filter for internal combustion engine. Method of manufacturing an improved ceramic fuel filter comprising the following steps (a) selection of globular particles (b) washing the selected particles (c) treating the washed and dried particles with a non-ionic wetting agent (d) applying on the wetted particles a thin layer of thermosetting resin (e) placing the resin-coated particles in a mould of predetermined shape whose inner surface is treated with parting agent and pressing into the mould a cold panch of predetermined shape and also treated on its surface with parting agent and (f) removing the moulded filter from the mould and treating it to a predetermined temperature and cooling the filter to room temperature.

April 28

131157. D. P. Joshi. Vibratory type industrial washing machine. Comprising washing unit, lid perforated cage, hooks for suspending lid and cage, detergent solution tank, a rinsing tank, electric and switches for supplying power, a centrifugal drying unit collecting tray.

131158. Asok Ranjan Das Gupta. An improved design of beehive coke ovens for the manufacture of metallurgical grade hard coke. A battery of horizontal bed internal combustion, non-bye product recovery type, improved beehive coke oven, each oven having removable ions, the entire oven battery being insulated against heat loss such that controlled multistage combustion of all the bye products of carbonisation and multidirectional heating of the charge enables manufacture of metallurgical grade hard coke and special type of cokes in the improved beehive ovens.

131159. Farbwerke Hoechst Aktiengesellschaft vormals Meister Lucius & Bruning. Process for the preparation of a polymerization catalyst. Characterized by preparing component A by the reaction of 0.5 to 5 molar parts of magnesium ethylate or a mixture of magnesium ethylate and aluminium alcoholate and 1 to 1.9 molar parts of titanium tetraisopropylate and 2.1 to 3.0 molar parts of titanium tetrachloride and reacting this with an organo metallic compound (component B).

131160. The Bunker Ramo Corporation. Trimming resistance circuit. Comprising a substrate, a plurality of electrical paths diposited on the substrate including conductive elements and resistive elements, the paths including a pair of parallel paths a contact member and means for moving said contact member.

131161. Richter Gedeon Vegyeszeti Gyar R. T. A process for the preparation of 21-deoxy-21-N/N'-methylpiperazinyl/-prednisolone. Prednisolone-21-mesyl ester and N-methyl piperazine are reacted in an acetonitrile-benzene mixture.

131162. Void.

131163. Ordena Lenina Institut Elementoorganicheskikh Soediney. Method of producing protein-containing food. Involving the following preparations : preparation of a colloidal solution of known food substances and a solution of solts of atleast bivalent metals; by known methods diffusion of ions of atleast bivalent metals from said solution resulting formation of an ionotropic gel; congelation of said gel by known technique followed by its deposting to split into the elements of lemellar structure with known food binders; bonding together said elements of lamellar structure impregnated with known food binders.

131164. Ordena Lenina Institut Elementoorganicheskikh Soedineny Akademii Nauk SSSR. Method of producing protein-containing foodstuffs imitating minced meat products. A mixture of protein and polysaccharide is prepared by stirring and the bivalent metal compounds are added to the above mixture and heated till a polysaccharide gel is obtained.

131165. Libbey-Owens-Ford Company. Apparatus for edge treating glass sheets. Comprising means for moving said sheets, a tool, means for driving said tool monitering means operable in relation with the movement of said glass sheet to operate the said tool.

131166. Libbey-Owens-Ford Company. Method and apparatus for producing electrically heated automotive windows. Comprising a sheet of glass with conducting grid having electrode connected to bus bar and pigtail extending from one end characterized by locating device having means for soldering bus bar to electrode including supporting means.

131167. Airyan Electricals. Tumbler switch. Comprising two metallic strips, a roller operated by a switching element such that it is mode to contact both the strips and one of the said strips being provided with a riding surface on which the roller rides during switching operators.

131168. Void.

131169. Bayer Aktiengesellschaft formerly known as Farbenfabriken Bayer Aktiengesellschaft. Process for the preparation of novel amidophenylisothioureas. Reacting an amidophenylthiourea with an alkylating agent in the presence of a base and of a diluent.

131170. Void.

131171. Bayer Aktiengesellschaft. Process for the dyeing and printing of moulded articles. Characterized by applying the dyestuff, obtained by diazotisation of 1-amino-2-chloro-4-nitrobenzene coupling this with -N-ethyl-N-phenyl-iodo ethylamine and reacting to product thus obtained with N, N-dimethyl-benzylamine, to moulded articles of polyacrylonitrile to produce red shades.

131172. The McNally Pittsburg Mfg. Corp. Improvements in or relating to thickeners. Comprising a device cable; a plurality of spaced carriers, means for supporting the drive cable full means and means for continuously pulling the drive cable.

131173. Pfizer Corporation. Process of preparing N-alkyl phenoxy-propanolamines. (May 14, 1970). Comprising reacting the corresponding epoxide compound with an appropriately substituted amine.

131174. Council of Scientific and Industrial Research. Improvements in and relating to glass to metal seals for encapsulation of semiconductor devices. Comprising the steps, placing the eyelet and the glass tablet in a graphite holder with corresponding holes; inserting metal leads through the holes in the tablet and melting the glass in an inert at atmosphere to make a hermitic glass, the glass and metal leads have approximately the same co-efficient of expansion but substantially lower than that of the metal eyelet.

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131175. Council of Scientific and Industrial Research. A method for commercial production of colycyrrhetiric acid from liquorice roots. Characterised by hydrolysis of crude glycyrrhizinic acid obtained from aqueous extract, by heating in an autoclave with a dilute mineral acid and wherein the final crystallisation is carried out with ethyl acetate.

131176. Void.

131177. Void.

131178. Bristol-Myers Company. A method of producing a synergestic skin-bleaching composition. Mixing together a bleaching agent, a skin irritant exfoliating agent and an anti inflammatory agent and formulating it in a pharmaceutically-cosmetically acceptable vehicle.

131179. British Insulated Callender's Construction Company Limited and Preformed Line Products (Great Britain) Limited. Overhead wire support systems and supports for use therein. (30th April, 1970). Integral extension of tie member is preformed into a helix in such a way that when the helix is wrapped about the main catenary it attaches the tie to the main catenary with sufficient-security.

131180. Fabric Fire Hose Company. Apparatus for continuous manufacture of reinforced hose. Characterised by sleeve feed means, an extruder with a coating head, a mandrel, stationary clamping members, travelling sleeve accumulators, windup means, travelling clamping members and a pair of annular platens.

131181. Void.

131182. Void.

131183. Varta Gesellschaft mit beschrankter Haftung. Improvements in or relating to galavanic primary cell. Comprising electrode casing carbon rod, depolariser, aqueous zinc chloride electrolyte characterised by the mixture contains 23 and 39 per cent.

131184. Aluterv Aluminiumipari Tervezo Vallalat. Equipment for operating ropeways. Comprising sleeves permitting the turning of cable lengths.

131185. Institutul DeCercetari Pentru Chimizarea Petrolului "Petrochim". Process for preparing high porosity catalysts for the dehydrogenations of hydrocarbons. Characterized by adding to the catalyst, before extrusion bead shaped or extruded polystyrene of 0.1 to 0.6 mm in proportion of 5 to 30 per cent by weight of the final catalyst.

APRIL 30

131186. Mukul Das. Tuning changing guitar. Comprising a floating cams whose one ends being connected to the strings of the guitar and other ends connected to floating levers, the floating levers passes through rods supported on intermediate and end guide blocks. the rods being actuated by pull rods being connected through bell chamber to the pedal levers. the movement of rods being controlled and adjusted by adjustable screws, permanent, stop being provided between end guide block and floating lever, a spring being provided at the bottom of the floating lever connected to the end block.

131187. Suresh Damodar Sathe. Improved door locking device. Comprising a rod passing through tube, a plurality of rotary circular counters marked with letters or numerals mounted on rotary tubes telescopically mounted on each other fitted with fastening plates and circular discs lener and door closing bolts.

131188. M. L. Rathi. Improvements in or relating to power transmitting coupling assembly. Comprising in that independent units are inserted in corresponding gaps, metallic coupling member having metallic ring at the middle and a supporting ring on the outer periphery being secured by suitable means.

131189. Gajanan Manohar Pathak. Filter nozzle for pressure tank outlet. Comprising a perforated tube in which there is placed glass wool, or steel wool or such spongy or porous material and above the tube there is fitted a nipple which is hollow and provided side-ward outlets and which outlets open in notches provided on the surface of the nipple.

131190. Lodzkie Zaklady Aparatury Elektrycznej. Overcurrent release of electric switch in particular of switch breaker. In the support on the common shaft are rotatably mounted two levers and two torsion springs so fixed they are loaded and exert on two said levers forces which are counter directed.

131191. Void.

131192. Bekum Maschinenfabriken GMBH. A method of manipulating blow moulded synthetic plastic articles and surplus material and an improved apparatus therefor. Comprising moving the mold between a first station and a second station, a deformable blank is expanded as the second station after introducing it at the first station, along a predetermined path the intercepted descending surplus material falling due to gravite is conveyed and the article is conveyed along the second path.

131193. Colgate-Palmolive Company. Process for bleaching of stains from fabrics. Comprises forming an aqueous washmedium by despersing in a water a mixture of peroxygen compound, an activator for peroxygen compound, and an amino polycarboxylic acid salt wherein the proportions of ingredients are such as to supply to water at least about 5 ppm to less than 90 ppm of said activator, about 3 to 8 ppm of active oxygen ppm peroxygen compound and about 100 to 300 ppm of aminopoly carboxylic acid salt and maintaining said wash medium in contact with stained fabric immersed therein.

131194. The Gillette Company. Improvements in or relating to apparatus for depositing material on a substrate. Wherein source of material and a substrate holder are arranged in a vacuum chamber associated with a power supply for transferring the material from the source to substrate.

131195. Void.

131196. Void.

MAY 1

131197. Council of Scientific and Industrial Research. A process for the extraction of quercetin and catechins from commercial black cutch. Comprise soaking black cutch powder with Nadadded in dilute Hcl, reflexing with ether, ether distilled off, residue warmed with acid H_2O, crystallized and reextracted with ether.

131198. Void.

131199. Void.

131200. Shell Internationale Research Maatschappij N. V. Detergent compositions comprising mixtures of salts of long chain nomocarboxylic acids. [Divided out of No. 124989 ante-dated to January 24, 1970]. By converting olefins by reppe-type carbonylation process into long-chain monocarboxylic acids and converting them into salts of detergent action.

131201. R. Schmidt and E. Schmidt. A thread cutting device for slide lathes. Characterising support member comprising a guide structure attached to tool post attachment means having a slide retained by spring loaded latch.

131202. Scientific Mechanic Works and Zenith Engineering Works. Bearing assembly for spindles. Characterised by that at the lower end of the socket a ball is rotatably held and supported on a base plate while between said ball and the coil spring and within the socket, a support is provided.

131203. Shree Gajjar Engineering Works. Improvements in or relating to a device for baking chapattis and the like and method of baking same. Characterized in that the bottom side baked chapattis from the first wiremesh endless belt are fed to the second of the wire mesh endless belt in such a manner that each of the chapatties is rolled over so that the unbaked side of the chapatties lie on the wiremesh endless belt and the said unbaked side gets baked as the endless belt travel over the third of the heater elements from one end to the other end which in the delivery end of the device and as the chapattis are nearing the delivery upper surface of the baked chapattis is also baked by the second of the heater element located above the wiremesh endless bent and the two side piping hot baked chapattis are delivered on a tray.

MAY 3

131204 Joseph Lucas (Industries) Limited. Braking systems for vehicles. (14th May, 1970). Includes means for re-applying brakes when the voltage across the integrating capacitor is restored substantially to the level at which release was initiated.

131205. Imperical Chemical Industries Limited. A process for separating acid gases in particular carbon dioxide from gaseous mixtures containing such gases. (15th May, 1970). Characterised in that the absorbing solution contains an amino acid or an ester on salt thereof along with an alkaline salt of an alkali metal in a proportion by weight less than that of the alkaline salt.

131206. Marcona Corporation. Apparatus for loading slurries into vessels and eliminating the suspending liquid. Including means for supporting end portion of a conduit in suspended relation beneath the upper surface of supernatant liquid of the slurry in the hold of the slip.

131207. Void.

131208. Void.

131209. Bekum Maschinenfabriken GMBH. Method and apparatus for separating the surplus of thermoplastic material from the neck portions of blow-molded containers. Subjecting the surplus and the neck portion of a freshly formed container to an intensive cooling action to cause rapid setting, effecting relative axial movement between the neck portion and the surplus to break eventually existing connections therebetween.

131210. Vsesojuzny Nauchno-Issledovatelsky I proektno-Konstruktorsky Institut Metallurgicheskogo Mashinostroenia. Gauging device for hot rolled products. Comprising photocells placed opposite windows intended for observation of the progress of rolling, having a means for protection against heat, located opposite the windows in the housing, its windows and the windows of the gauging device have projecting edges which form a slot clearance for escape of the air admitted into the chamber.

131211. Void.

131212. V. P. Zinkovsky, N. A. Sukoian. V. F. Alyanov and J. F. Frolov. Device for holding and longitudinal displacing of electrode for an electric furnace. Comprising frame, three-friction clamps fitting around the electrode provided with individual power drive supplied from working medium distributor.

131213. Void.

MAY 4

131214. Void.

131215. Solvay & Cie (Societe Anonyme). Process for the polymerisation of olefins. The low pressure ploymerisation and copolymerisation of alphaolefins is carried out in the presence of a catalytic system comprising an organometallic compound of groups Ia, IIa, IIb, IIIb and IVb of the periodic Table and a catalytic element obtained by reacting an activated alumina with a halogenated derivative of a metal of groups IVa, Va and VIa of the periodic Table.

131216. Void.

131217. Void.

131218. Melle-Benzons. Process for purifying high boiling esters. An improvement in a process for the purification of a high boiling carboxylic acid ester produced by catalytic esterification of the component alcohol and acid or anhydride thereof, then neutralization of the reaction mixture, separation of the excess alcohol, water etc. Using a technique involving steam distillation or stripping carried out in successive distillation column the last two of which are operated in vacuum which is, characterised by continuously injecting the vapors of the head products of the final column which works under deepest vacuum, together with steam into the bottom portion of the preceding column which works under a less deep vacuum.

131219. Void.

131220. Fargwerke Hoechst Aktiengesellschaft vormals Meister Lucius & Bruning. Asymmetrical 1:2-chromium complex azo dyestuffs process for their preparation and textile materials dyed or printed therewith. A 1 : 1-chromium complex azo dyestuff is reacted with a complex forming monoazo dyestuff.

131221. Leningradsky Metallichesky Zavod Imeni XXII Siezda Kpss. Arrangement for milling multifaced holes with an even number of faces. Comprising end cutters mounted on either end of the shaft for milling the two opposing faces of the hole at the same time.

131222. William Prym-Werke KG. Process and equipment for manufacturing a slide fastener by weaving. Charactefised in that sectional strand forming the link elements is passed to and fro through the plane of means as a warp shed and in rhythm with this movement is passed around a loop forming mandrel and is tied off by means of at least one weft thread.

131223. Void.

131224. Hoechst Aktiengesellschaft. Process for the preparation of benzodiazepines. Comprising reacting a corresponding benzodiazepine derivative with and oxophosphine compound.

131225. Farbwerke Hoechst Aktiengesellschaft vormlas Meister Lucius & Bruning. Process for the manufacture of polyester filaments having a low degree of shrinkage. Passing the filaments immediately after the drawing process for a period of 0.02 sec. to 0.5 sec. over rolls having surface temperatures ranging from 230° to 280°C and thereafter relaxing the filaments under a tension within the range of from 0.2 p/tex to 10 p/tex.

131226. Void.

131227. Void.

131228. Badische Anilin & Soda Fabrik Aktiengesellschaft. Process for the production of substituted pyridazones. A pyridazone derivative is reacted with dichloride of carboxylic acids like adipic acid.

131229. Void.

131230. Ranks Hovis McDougall Limited. Process for the production of an edible protein. (14th May 1970). Incubating and proliferating under aerobic conditions in a culture medium, a non-toxic strain of the genus Fusanium or a variant or mutant thereof and separating the proliferated organism comprising the edible protein substance.

131231. Richter Gedeon Vegyeszeti Gyar R.T. A process for the preparation of phenol-formaldehyde resin complexes of compounds having corrin skeleton. Comprises adding an alkaline solution of a liquid condensation product prepared from phenol and HCHO in acidic medium containing 2 to 5 phenol moieties per polymer molecules to a dilute aqueous solution containing compounds of corrin skeleton, acidifying to pH 2-6 sand separating the precipitate.

131232. Riv-Skf Officine Di Villar Perosa S.p.A. Improvements in or relating to roller bearings and cages therefor. Base of the space between adjacent teeth is formed with an aperture longer than the rollers which are to be mounted in the said spaces and narrower than the diameter of the said rollers.

131233. Void.

131234. Dayco Corporation. Asymmetric variable speed drive. Wherein the inner surface of the axially non-movable flange member of the driving and driven sheaves respectively from an angle of from 0 to 6° and surface of the movable flange member of the said sheaves from an angle of from 12 to 26° with the plane perpendicular to the axis of rotation.

131235. Central Glass Co. Ltd. Process for the production of high quality synthetic cryolite. Comprises reacting a mixed solution of ammonium and sodium fluoride with required amount of sodium aluminate at elevated temperature in presence of seed cryolite crystals at a pH range of 8-12.

131236. Void.

MAY 5

131237. Dunlop Holdings Limited. Flexible laminated material method of making the same and composite articles made from such material. Comprises at least one sheet of preformed polyamide film bonded to at least one layer of synthetic elastomeric material in which the prolyamide film being one of the surface layers of the laminated material.

131238. The Norwich Pharmacal Company. 2, 3-dihydro-2-(5-nitro-2-thienyl) quinazolin-4(1H) ones. Comprises reacting 5-nitro-2-thiophenecarboxaldehyde with an anthranilamide.

131239. Stencel Aero Engineering Corporation. Arrangement for deploying and spreading a parachute. Characterized by the combination of a main parachute including suspension lines and a main canopy, a pilot parachute connected to the apex of the main canopy to aerodynamically deploy the main into the air stream in a down stream direction.

131240. The Goodyear Tire & Rubber Company. Improvements in belt and belt drive assembly. Comprises a first layer of resilient material including a plurality of uniformly spaced teeth generally transversely a second layer of flexible material including a plurality of substantially V-shaped ribs extending generally longitudinally, a tension section embedded therein.

131241. Void.

131242. Aktieselskabet Niro Atomizer. A liquid distributor for feeding liquid to a rotating atomizer wheel. Comprising a body having a plurality of helical ducts the axis of which considing with the axis of the wheel and terminates with an ejecting edges inside the said wheel.

131243. Heron Establishment. A process for making ice-cream and an apparatus for carrying out the process. Comprising a source of gas under pressure, at least one drum containing ice-cream mix, mixing chamber with a cooling circuit.

131244. The Air Preheater Company, Inc. Continuously fired batch type incinerator comprises an incinerator housing enclosing a chamber with a loading port with a closure door and an outlet port, a branched outlet duct, means connecting one branch of the duct to the outlet port, an outlet stack means connecting the stack to a branch of the duct, a second incinerator housing with loading and outlet port and means connecting the second outlet port to a branch of outlet duck whereby the first and second incinerator housing are both connected to a single outlet stack.

131245. Leningradsky Metallichesky Zavod Imeni XXII Siezda Kpss. Radial-axial flow hydraulic turbine. Comprising an impeller wheel, a closure casing and a water lubricated guiding bearing being positioned on said closure casing adjacent to the upper rim of said wheel.

131246. Euclid, Inc. Exhaust diverting valve for dumpable vehicles having heated dump bodies. Comprising a valve body having an engine exhaust gas inlet a first outlet directing exhaust gas through dump body to the atmosphere, and a second outlet directing exhaust gas from said valve body to the atmosphere and way from the cab.

131247. Addison Summers Beckley. Motor vehicle injury and damage prevention system. Comprising impact resistant material to be fitted on front and/or rear portion of the vehicle and thick mass of cellular shock absorbing material disposed on outer face of said sheet.

131248. Sankyo Company Limited. Soil fungicide. Comprises mixing an alkyl ester of 2-benzimidazole carbamate 3-hydroxy-5-methylisoxazole and agriculturally acceptable carrier, the total concentration of the active compounds being between 0.1 and 95 per cent by weight of the total mix.

131249. Void.

131250. Jose Antonio Iribas Suarez De Otero. Improvements in rods for reinforced concrete. Comprising nucleus of circular cylindrical form over its surface four fins and series of transverse ribs characterised in that the centres of transverse ribs intersecting one of the fins, both series of fins do not contact remaining pair of fins.

131251. Aluterv Aluminiumipari Tervezo Vallalat. Alumina transporting and dispensing bin. Characterising a pneumatic discharge chute joined by the bottom walls of the bin and having a bottom forming an air chamber, outlet nozzle discharging on a pneumatic dispensing chute having a bottom forming another air chamber, perforated rings, all three being pressurized by air pipe from a fan provided with driving motor supplied with power from storage battery through switch.

131252. Aktiebolaget Svenska Flaktfabriken. Joint between fire proof and pressure-tight wall and ceiling elements. Characterized in that T-shaped and flat bolt having head with two feet to rest against inside of bent-back shanks of outer clamping section and is wider than said section internally.

131253. Aktiebolaget Svenska Flaktfabriken. Locking element for anchorage of a ceiling section to a wall section. Characterized in that locking element consists of first U-section inserted in and surrounded by ceiling section, of section U-section inserted in and surrounded by the wall section and by an intermediate piece integral with webs of respective section.

131254. Void.

MAY 6

131255. Council of Scientific and Industrial Research. A water carrier for furnace loading, unloading and carrying semiconductor wafers. Whereby by removing the loading-unloading end, and connecting the end to a furnace tubing end of a processing furnace and removing the pushing end stopper from the pushing end, the quartz plate carrying wafers can be pushed into the furnace tubing.

131256. D. P. Sharma. Improvements in or relating to a device for opening sealed tin containers and discharging of contents therefrom. Comprising a main body of a pipe section having a flange beyond which the body extends to form a tapering projection carrying three hull shaped passages and the end of the projection being formed with a blind hole fitted with a tool bit.

131257. Council of Scientific and Industrial Research. A process for the preparation from "spent chandrus" of a french polish that gives a hard and glossy finish to surfaces of wooden furniture that have received a goundcoat of shellac polish. Comprises dissolving spent chandrus by refluxing over a water bath in mixture of ethanol, benzene and n-hexane.

131258. Council of Scientific and Industrial Research. A developer for developing an electrostatic latent image on a photoconductive plate used in electrophotographic machine. Comprises mixing a toner cotaining a pigment and a resin with a granular carrier.

131259. G. Payne. Push cock. Characterised in that the annular seat for the washer in the cock is a stepped one with the washer also correspondingly stepped.

131260. Void.

131261. P. K. Everett. Electrochemical refining of metals. (11th May, 1970). Comprising the steps of applying a direct current potential to achieve a transfer of electrons between an inert electrode and base metal bearing electrolyte, diffusion of the metal ions to a deposition electrode.

131262. Hepworth & Grandage Limited. Process and apparatus for casting articles from ferrous metal. (May 14, 1970). [Addition to No. 117700]. Characterized by having a permanent mould including at least one cavity having a permanently open ingate.

131263. Joseph Lucas (Industries) Limited. Electrical lamp assemblies. (19th June, 1970). Comprising reflector unit, reflector with bulb holder bulb, lens, fastening device having first and second part.

131264. Fabbrica Italiana Magneti Marelli S.P.A. An electronic device for controlling a silicon controlled rectifier in a capacitor discharge electronic ignition circuit for internal combustion engines. Comprising a monostable multivibrator having its output connected to control electrode of silicon coupling circuit supplying thereto the control signal from a clipping circuit, which is supplied from the battery and driven by the breaker.

131265. Welset Extrutionists. Improvements in or relating to a device for moulding thermoplastic materials and a process for moulding such materials. Consisting two hydraulic or mechanicalled operated presses, a pair of fly-wheel type screw presses, a pair of conveyors, a pair of work tables the plastic material sandwiched between heated platens under screw presses at temperature from 100°C to 150°C prior to final moulding in hot press.

131266. K. K. Bhavani. Expandable shaft assembly. Comprises a solid metal shaft provided with three T-shaped slots and having a central bore fitted with an air valve, a flexible tube housed inside each T-slot having an inlet nipple fitted inside drilled holes communicating with the central bore and a metal gripping strip inserted inside each T-slot over each said tube.

131267. Void.

131268. Hydrophilics International, Inc. A method for forming a copolymer having a hydrophilic surface. Forming a copolymerization mixture of from 75 to 92% methyl methacrylate and 8 to 25% acrylic acid, placing the mixture into a casting cell, heating the mixture in the cell at from 40°C to 65°C., removing the co-polymer and treating at least one surface with a basic solution of 0.1 to 5% for 48 hours.

131269. Hydrophilics International Inc. Process for preparing hydrophilic copolymer. Comprises bulk copolymerization of a mixture comprising methyl methacrylate and a member selected from acrylic acid and methacrylic acid and a long chain ester of acrylic acid or methacrylic acid plasticizer and neutralising the acid group by a mild aqueous basic solution.

131270. E. Gy. T. Gyogyszervegyeszeti Gyar. A process for the preparation of a new pharmaceutically active 2, 3-diazabicycle [5.4.0] undecapentaene derivative. Comprises reacting 3-[2-veratroyl-4, 5-dimethoxyphenyl] pentan (2) one with hydrozine or hydrazine hydrate in presence of a mineral acid.

131271. Nippon Kokan Kabushiki Kaisha. A method of producing metallurgical coke. Characterized by adding wire or band or small pieces of material to and with coking coals which is charged into even.

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131272. A. D. Dikshit and S. K Damle. Improvements in or relating to level indicating apparatus. Comprising a square box, a circular dial (graduated fixed on any side of the box, at the centre below the dial a small gear with first pivoted bearing, and indicating means being provided on the dial fixed to the first bearing, a second gear being fixed below the dial by means of second pivoted bearing such that its teeth being engaged with those of small gear, the other end of the gear being fixed with a weighted pendulum.

131273. A. D. Dikshit and S. K. Damle. Improvements in or relating to an instrument for measuring angles. Characterised in that one end of indicator means more on the circular dial graduated in degrees and the other end fixed with weighted pendulum.

131274. A. D. Dikshit and S. K. Damle. Improvement in and relating to safety-cum-barber rasor. Characterised in that on one-edged the holder plate has at least two openings and guard plate has a safety portion on one side and unsafe portion on the other.

131275. Yallapragada Sambasiva Rao. A rail fastening assembly. Comprising a resilient clip having a pair of loops connected by a horizontal member and a holding device second to a sleeper for fastening the clip so as to butt against the edge of the rail flange preventing lateral movement of the rail.

131276. Void.

131277. Void.

131278. Void..

131279. Void.

131280. Denki Kagaku Kogyo Kabushiki Kaisha. Process for preparing fungicides for use in agriculture and horticulture. A mixture of isobutylene-bis-dithiocarbamic acid-sodium salt is reached with divalent metal salt.

131281. Void.

131282. Shell Internationale Research Maatschappij N. V. Process and apparatus for manufacturing sulphur. Comprises accepting sulphur dioxide from gas-mixture, subsequently freeing it with a steam diluted regeneration gas the off-gas so obtained is contacted with a liquid to SO_2 in it expelling the absorbed SO_2 gas from the liquid by heating and reacting at least part of it with hydrogen sulphide.

131283. Monsanto Company. A process for the asymmetric hydrogenation of β-substituted- α acylamido acrylic acids and/or their salts using coordination complex catalysts therein. Comprising hydrogenation β -substituted-acylamido acrylic acid and/or its salts in the presence of a condensation complex catalyst comprising a metal selected from the group consisting of rhodium, iridium, ruthenium, osmium, palladium and platinum in combination with at least one optically active phosphine or arsine ligand.

131284. Aluterv Aluminiumipari Tervezo Vellalat. Method of accelerate the setting and to improve the coagulation of red mud formed in course of alumina production. Method to accelerate the settling of red mud in alumina plants by means of flour settling additive characterized in that the flour is mixed in a homogenizer with a specific work of 8-50 Wh per kg, preferably 25 Wh per kg. of flour mixing performance for 5 to 30 seconds, but preferably for 15 seconds with an aluminate liquor of 40-150 g/litre Na_2 OH concentration and at a temperature between 40 and 100°C and adding the flour liquor suspension obtained by the above procedure to the slurry to be settled.

131285. Adriano Gardella S.p.A. Centrifugal can-spinning spindle. Comprising a bell-shaped neck a tubular vertically reciprocatable distributing thread guide and an axially stationary pre-twisting tubular thread guide co-axial with the distributing thread guide.

131286. Farbwerke Hoechst Aktiengesellschaft vormals Meister Lucius & Bruning. Process for the preparation of benzoxanthene and benzothioxanthene dyestuffs. Comprises heating a benzoxathene dyestuffs. Comprises heating a benzoxathene or benzothiox anthene 3, 4-dicarboxylic acid with a substituted phenyl acetic acid in presence of alkali.

131287. Farbwerke Hoechst Aktiengesellschaft vormals Meister Lucius & Bruning. Process for the preparation of benzoxanthene and benzothioxanthene dyestuffs. Comprises heating benzoxanthene or benzotheoxanthene 3, 4-dicarboxylic acid with phenylacetic acid and alkylating the product.

131288. Egon Scheubeck. Stage selector for regulating transformers [Addition to No, 122793]. Improvement in Indian patent specification No. 122793 wherein the last fixed contact of the odd numbered selector contract plane is situated. for each phase, on the insulating bar of one reverser contact, while the first fixed contact of the odd numbered selector contact plane, is situated, for each phase, on the insulating bar of the other reverser contact.

131289. Texaco Development Corporation. An electrical indicator for pneumatic controls system. Comprising a plurality of first switches for actuator in response to process parameters a plurality of relays respectively to the switches and each of a plurality of second switches of the relay being connected into an energising circuit for a respective one of the other relays.

131290. Ustav Pro Vyzkum Rud. High intensity multizone magnetic separator. Comprising magnetic yokes creating between their opposite poles a magnetic flux in a vertical direction, with a number of chambers, linked together to form an endless element and provided with induction bodies with a number of openings loosely accommodated in said chambers.

131291. Void.

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131292. Void.

131293. Clayton Dewandre Company Limited. Improvements in or relating to spring brake units. Comprises a shell or casing attached at one end to a mounting plate or flange having a hollow re-entrant portion extending into the shell and defining a hydraulic cylinder within which is carried a piston along with a hollow piston rod.

131294. Clayton Dewandre Company Limited. Improvements in and relating to control valves for spring brake units. A control valve plunger displaceable axially in a bore of a valve body and a valve element operable by said plunger to connect the fluid pressure chamber of a spring brake unit alternatively to a source of pressure fluid or to a return line leading to a reservoir or sump.

131295. Clayton Dewandre Company Limited. Improvements in and relating to hydraulic pumps. Comprising two plunger and sleeve type pumping devices driven from a common crank shaft, fluid admission means, a control chamber and an unloader device.

131296. Void.

131297. V. J. Knanchandani. A wax candle holder or like device. Wherein the cap has a hole as aperture through which the candle wick comes out for burning and the tubular body is larger than the candle length.

131298. Void.

131299. Hindustan Lever Limited Nickel hydrogenation catalyst. A process for preparing nickel hydrogenation catalyst comprising reacting a powdered nickel/aluminium alloy containing 15-30% by weight of nickel with an aqueous solution of sodium or pottasium hydroxide and subsequently digesting the resultant aqueous suspension of nickel for two hours at 70-100°C and finally wasting the nickel residue with water.

131300. J. J. Robinson. Improvements in calendars. Comprising a casing formed with first, second, third and fourth view positions, first, second third and fourth annular gear means rotatably mounted in the casing and disposed behind the first, second, third and fourth apertured means data disposed on the external peripheries of annular gear means and display visibly at the view positions to a calendar user.

131301. Void.

131302. E. I. du Pont de Nemours and Company. A process for producing a corrosion-resistant ferritic iron-chromium-molybdenum alloy. Wherein melting is initiated in a vacuum of the order of 10^{-8} to 10^{-5} torr and alloying elements are melted and cast in an atomosphere of argon.

131303. British-American Tobacco Company Limited. Improvements in apparatus for drying tobacco. Characterized by a supplemental heated air supply system for at least one of the drying chambers, the supplemental system including a blend device.

131304. Dr. S. Raviv. Polishing of metals. Connecting the body as cathode in electrolytic system and then reversing the polarity of the body and allowing electric current to flow.

131305. Kureha Kagaku Kogyo Kabushiki Kaisha. Process for the manufacture of 4, 5, 6, 7-tetrachlorophthalide. Comprises heating 1, 2-bis(dichloromethyl)-3, 4, 5, 6-tetrachlorobenzene with a suitable organosulphonic acid, eg alkyl sulphonic acid.

131306. Uzina Chimica Valea Calugareasca. Process for the recovery of alkali metal phosphates from metal phosphate residues. Treating in steps the residue resulting from alkali metal phosphates, with sodium hydroxide, converting the phosphates to hydroxides and separating therefrom alkali metal phosphate solution.

131307. Scientific Reparis & Trading Co. Private Limited. Automatic temperature control device. Characterised in that the first chamber is provided with an accelerating heater and a first drift compensating heater separated from the said first chamber by a heat insulating material, the second volume chamber being provided with a reversing heater and a second drift compensating heater separated from said second chamber by a heat insulating material, the said heaters are so connected that when the process heater is on the said accelerating heater and second drift compensating heater are on and when it is off the said reversing heater and first drift compensating heater are on.

131308. Montecatini Edison S.P.A. Process for the preparation of synthetic rutile starting from ilmenite. Characterized in that ilmenite is pre-leached with 15-25% hydrochloric acid at a temperature of 90-110°C to solublize ferrous oxide and the obtained suspension is filtered or centrifuged obtaining a solid phase, which after washing, drying and preheating is treated with hydrogen and/or carbon dioxide at a temperature of 680-900°C to reduce to ferrous oxide all the higher iron oxides, the reduced or is leached at a temperature of 80-110°C with 15-25 per cent hydrochloric acid to solublize the ferrous oxide, and the obtained suspension is filtered or centrifuged obtaining a solid phase obtaining synthetic rutile.

131309. Void.

131310. Void.

131311. Knapsack Aktiengesellschaft. Electrolytic production of manganese ioxide in -modification. Comprises using an electrolyte containing potassium and sulfuric acid at a definite concentration and maintaining the said concentration during the electrolysis.

131312. R. G. DePenning. Adhesive crayon and process for producing the same. Comprises forming a gel by mixing together (a) a water soluble alkali metal ammonium salt of an aliphatic carboxylic acid having in (b) water and adding (c) a known water soluble/dispersible adhesive.

131313. Zellweger Ltd. Apparatus for determining the cross-section per unit length of products of the textile industry. Comprising a sound field characterised by a discriminator which responds to changes in the transit time of the sound waves and which releases a signal.

131314. Zellweger Ltd. An apparatus for determining the cross-section per unit length of products of the textile industry. [Addition to No. 131313]. Improvement in Indian patent specification No. 131313 characterised by resonators which are tuned to the working frequency of the sound generator and sound pickup or to one or its harmonics.

131315. Zellweger Ltd. A measuring electrode for capacitive measuring. Metallic electrodes are formed by coatings applied by vapour deposition to a body of high frequency ceramics material reproducing the form of the electrodes, the metal layers being thickened.

131316. Zellweger Ltd. Apparatus for determining the average deviation of a variable function from its mean value. Comprising a first variable Re-network, a subtractor, a squaring network, a second variable Re-network, root-extracting network, and a division network.

131317. Swiss Aluminium Ltd. Improvements in or relating to a process for the recovery of aluminium from an alumina-containing fluoride melt in an electroylte cell. Fresh anodes are set in position by initially determining the height at which fresh anodes attain their normal current intensity at about one day and thereafter setting each fresh anode at the height.

131318. Standard Car Truck Company Railway car center bearing. Comprising a bloster with flate under surface with axial opening to receive center pin and a upper surface only broken by central circular boss with axial opening for center pin, a floating ring and a bearing ring.

131319. Void.

131320. Danfoss A/S. A voltage regulated direct-current supply system. In which a control means for controlling an element by impulse comprises a frequency emitter a monostable multivibrator an impulse regulating circuit which in turn is controlled by a discriminator and a sum and difference amplifier.

131321. K. Ramakrishnan. An improved liquid retaining structure. Its side wall is made up of a number of vertical hollow segments the segments being not joined the gaps between the segments being made water tight by droping water proof sheath on the inner face of the wall, the sheath extending to the full height of the wall and being fixed rigidly to the base in which the segments are fixed.

131322. Void.

131323. Void.

131324. Void.

131325. K. K. Xavier. An improved light arrangement for parallelogram bar type drafting machines. Comprises at least a pair of cantilever bars one end of the bars being fixed to the top end link between the upper pair of parallel bars of the crafting machine, the other end of the bars carrying a sleeve, a tube being provided in the sleeve, the tube contains two threaded spindles each carrying a light arrangement in such a way that when the spindles are operated by kobs provided at each end of the tube, the lights move towards or away from each other.

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131326. New Central Jute Mills Company Limited. Process for the simultanious production of soda ash and ammonium chloride. Comprises ammoniating in a single step carbonated mother liquor of Nacl, NH$_3$ and CO$_2$, adding Nacl at 40-42° crystalizing in two stages, slurry of NH$_4$cl crystals centrifuged and dried, NH$_3$ vapors evolved in the first stage crystalization absorbed in the liquor remaining after removal of NH$_4$cl crystals carbonating the liquid formed and resulting NaHCO$_3$ calcined to give Na$_2$CO$_3$.

131327. Centro Sperimentale Metallurgico S.p.a. An improved process for manufacturing steel characterised in that the metallic melt is directly overheated by the heat developed, by the combustion of CO without using other fuels, being the refractory lining of the vessel protected against the action of the heat as well as of the slag during the refining.

131328. Imperial Chemical Industries Limited. Bipolar unit for electrolytic cell. (May 26, 1970). Comprises an anode consisting of a sheet of anode metal and a cathode, consisting of a foraminous sheet of iron or steel parallel to and spaced apart from but in electrical connection with the first sheet of iron or steel.

131329. Charis, aka Charilaos George Massouras. Gynaecologycal device, for insertion in the woman's womb. Characterized in that it includes a y-shaped flexible support means made of biologically inert elastic material, the branches of which are each provided with a fan like membrane extending in half the space separating the two branches and coplanar with them, the free edges of opposed membranes defining radical split coaxial with the leg portion of the branches.

131330. Fertilizer Corporation of India Limited. A process for the preparation of modified silica gel useful as supports for chromatography. Treating silica gel with aqueregia washing it with distilled water, drying it, treating with aqueous solution containing transition metal salts and evaporating to dryness followed by heating to dryness to a temperature of 950°C.

131331. Void.

131332. Veb Jenapharm. A tubular test device for the determination of alcohol in respiratory air. A transparent tube is filled with non-porous material glass particles on which is applied with the help of fine silica gel dust as carrier, bichromate, sulfuric acid, as the alcohol indicating medium.

131333. Vsesojuzny Naucnno-Issledovatelsky Institut Zaodskoi Tekhnologii Sbornykh Zhelezobetonnykh Konstrutsy I Izdely "Vniizhelezobeton", and Vsesojuzny Gosudarstvenny Proektno-Konstruktorsky Institut Strooitelnykh Mashin "Giprostrommashina", Vibrating table. Comprising supporting elements, vibrating frame, vibrating units mounted on the longitudinal wall with unbalanced shafts and electric drive.

131334. N. V. Philips Gloeilampenfabrieken. Method of providing a clamping band around the envelope of a television display tube, and television display tube provided with a clamping band according to the invention. Clamping band arranged on the envelope such that the edge of the band adjoins the front face of the window, the sharp bend of the clamping band engaging the mould match line in the sidewall of the window, as readily as possible.

131335. Rederiaktiebolaget Nordstjernan. Process for producing cemented tungsten carbide compositions. (19th April 71). Comprises producing tungsten powder by providing a preheated unreacted mixture of tungsten halide and hydrogen at a temperature above reaction temperature and feeling the mixture into a reaction chamber, carburizing the tungsten powder formed and sintering the product with a binder metal.

131336. Rederiaktiebolaget Nordstjernan. Production of certain metals and metal compounds in the form of powder. Controlling grain size and accelerating reaction of halide of metals in gas phaze, the reaction being carried out in the presence of crystallization seeds.

131337. Merlin Gerin. Compressed-gas multiple-break circuit interrupter. Axes of arc extinguishing means of chambers are offset one with respect to the other and both with respect to the common axis.

131338. Sandoz Ltd. Process for the production of thermoplastic materials, without the property of accumulating electrostatic charge. A tertiary amino ester like triethanolamine-mono laminate is admixed with the plastic material under heat and pressure.

131339. Cardwell Westinghouse Company. Sealed nonspin hand brake arrangement. [Addition to No. 125691]. Comprises a drum cover plate removably secured to the casing over the mounting space, a drum shaft and means for journaling the same between said casing and said plate and a drum gear keyed to the drum shaft.

131340. Void.

131341. Void.

MAY 13

131342. Airfix Industries Limited. Improvements in and relating to a method of manufacturing a container and a container made partly from flexible sheet material. (13th May 1970). Comprising an end closure and upstanding peripheral wall having an open end, wall being united with end closure and having a seam, wherein the wall is formed of single piece flexible sheet constrained to define a space of decreasing cross-sectional area in the direction of end closure by injection moulding of synthetic plastics material.

131343. International Business Machines Corporation. Control unit for data storage apparatus. (May 20, 1970). Comprising means which receive from receiving unit a sequence of control signals, means which control the apparatus over each filed of a record and means effective at given values of the count to initiate given functions of the storage apparatus and control unit.

131344. Hermann Hofer. Endothermic processes in a shaft furnace of kiln and more particularly to a process for calcining lime. Comprises introducing the material to undergo reaction vertical shafts, heating the same in the preheating zone, introducing primary air in the top of the first shaft, feeding cooling air in counter flow from the bottom of the cooling zone in one on both shaft feeding fuel gas into the combustion zone.

131345. Joseph Lucas (Industries) Limited. Lamp assemblies for Road vehicles. (June 23, 1970). Including a moulded synthetic resin reflector having an open end closed by a moulded synthetic resin lens, the reflector having formed integrally therewith a plurality of brackets through which the lamp assembly is mounted in use.

131346. Unelec. Electromagnetic brake, Fixed disc is mounted on at least one column which ensures through its ends the assembly of a casing, within which rotatable disc and fixed disc are encased, of armature carrier and of a cover carrying the winding, to form a box.

131347. Joseph Lucas (Industries) Limited. Voltage regulators for use in battery charging systems. Includes an output transistor, a resistance chain for sensing output voltage of generator, a zener diode connected to the resistance chain, and biasing means for controlling the base voltage of the transistor.

131348. Joseph Lucas (Industries) Limited. Method of interconnecting parts. Ultrasonic energy is supplied to the shoulder of thermoplastic part to cause material to flow in groove to interconnect pair of parts.

131349. Zellweger Limited, Improved textile-testing apparatus for measuring the cross-section of yarns, rovings and silvers. Comprises an automatic yarn changing mechanism, a rotatable rocker arm with a clamping device for gripping the yarn under test and a measuring unit.

131350. Zellweger Ltd. Yarn-changing mechanism. Comprises a clamping support means for advancing the clamping unit and a cutting unit.

131351. Badische Anilin-& Soda-Fabrik Aktiengesellschaft. Process for the preparation of substituted octahydroquinazolinediones. Comprising reacting α-branched ether amines with isatoic anhydride to give the corresponding tetrahydroquinazoline derivative which is reduced with hydrogen in the presence of a catalyst and the octahydroquinazoline derivative thus obtained is reacted with an appropriate acid chloride.

131352. The Upjohn Company. Process for the production of free flowing the production of free flowing crystals of the tris (hydroxymethyl) aminomethane salts of PGE_2 and PGF_3. Comprises mixing an acetonitrile solution of PGE_2 or PGF_2 with conc. solution of tris (hydroxymethyl) aminomethane cooling and collecting the crystals.

131353. Shirou Ichinose. A screen printing machine. Comprises a squeegee supporting bar having a chamber therein, a squeegee holder movable within the chamber, a squeegee member fitted to the squeegee holder on an elastic tube in the chamber bearing against the squeegee holder.

131354. Void.

131355. Void.

131356. Rohm and Haas Company. Seeds treated with novel fungicidal compounds. [Divided out of No. 123599; ante-dated to May 13, 1971]. Seeds whenever treated with a triazole derivative.

131357. Vdo Tachometer Werke Adolf Schinding GMBH. Tachometer with a distance counting device, Characterised in that intermediate shaft for driving the counting system is sub-divided into two shaft parts independently supported in bearings in the bearing block, the counter block and the bearing block are coupled together by means of spur gear supported in a rotatable manner concentric to the indicator axis.

131358. Surendranath Ganpatrao Borlikar. Improvements in or relating to household, hospital, laboratory, or industrial utensils or vessels having handles or grips fitted thereto and more particularly in respect of such handles or grips. Characterised in that it has at least one detachable handle, the handle is provided with one hook and the vessel is being at least one peg or like means adapted to receive and engage with the said hook or like means.

131359. Arun Rangnath Deshpande. Single Wheel Multipurposes Plant Protection Implement. Comprising a rectangular chassis on a single wheel with lugs, a pair of tanks, a pair of reciprocating sprayer, larger pulley drawing attachment and a pair of rigid tubing.

131360. Vikrant Engineer Poona (P) Ltd. Magnetic lock. Comprising a body for the lock and a U bolt free end of which can be pushed in the cavity being provided at the top of the body, when there being provided at the other end of U bolt a spring loaded plunger with a deep notch, a locking pin to lock the notch, supported behind the locking pin there being provided horizontal small steel bits, the number and location of the steel bits corresponds to the number and location of the magnets in the flat stub, the small steel bits pass through a pair of strips of non-magnetic material like brass.

131361. Void.

131362. Void.

131363. The Mysore Lamp Works Limited. Sleeve a method and apparatus for making same. Comprising creating a sheet material of required width, bonding the ends of the sheet with gum tape to form a sleeve, passing the sleeve between squeeze rollers, and cutting the sleeve into required length.

MAY 14

131364. Void.

131365. Void.

131366. Void.

131367. Council of Scientific and Industrial Research. 2-substituted 1, 2, 3, 4, 6, 7, 12, 12a-octahydropyrazino (2, 1 : 6, 1) pyrido (3, 4-b) indoles. Reacting methyl-substituted-1, 2, 3, 4-tetrahydro-9(H)-pyrido-(3, 4-b)-indole carboxylate with ethylene amine, reduction of the product with lithium aluminium hydride and treating the reaction product thus obtained with a reagent containing halogen.

131368. Solvay & Cie, Societe Anonyme. Activation of peroxide washing and bleaching baths. Profess for the activation of peroxide compounds able to liberate active oxygen in aqueous washing and bleaching bath characterised in that an acetylated dioxime is added as an activator.

131369. Halcon Internation, Inc. Process for production of esters of bis-(hydroxyethyl) terephthalate. Comprises reacting terephthalate acid with C_1-C_4 diester of ethyleneglycol in liquid phase at 100-350°C in presence of acidic catalyst.

131370. Void.

131371. Void.

131372. Skoda, Narodni Podnik. Apparatus for limiting the back-flow of steam from a plate of regeneration to a steam turbine. In the space provided for the condensate with accumulated heat of the low pressure regeneration, exchanger a throttling nozzle is provided for preventing back flow of steam into the turbines.

131373. Uzina Chimica Valea Calugareasca. Process for the production of alkali metal phosphates and polyphosphates. Neutralizing in steps with alkalis of wet process phosphoric acid, first upto a pH range of 2.7 to 3.1 followed by filtration of a phosphate rich in iron aluminium titanium rare earth phosphates and poor in calcium, continuing neutralization until pH corresponding to desired alkali metal phosphate is reached and separating a phosphates rich in calcium and sodium.

131374. A Frieder. Flender & Co. Flexible couplings. Comprising two coupling blocks, spacers provided between two concentric flanges of one of said blocks, flexible coupling elements received in the notches formed in said spacers, the stem between the wings of said H-shaped elements being held in the notches, the other block having protruding fingers conforming to the pockets between opposite wings of two adjacent elements.

131375. Void.

131376. Void.

MAY 15

131377. Colgate-Palmolive Company. Dentifrices. (June 4, 1970). Comprising a water soluble non-toxic aminocyano polymeric diguanide which is a mixture of the polymers having the formula $\mathrm{Y[NH}\text{-}\underset{\underset{\mathrm{NH}}{\|}}{\mathrm{C}}\text{-}\mathrm{NH}\text{-}\underset{\underset{\mathrm{NH}}{\|}}{\mathrm{C}}\text{-}\mathrm{NH}\text{-}(\mathrm{CH_2})_6]_n\ \mathrm{X}$ wherein y is $\mathrm{NH_2\,(CH_2)_6}$- or $\mathrm{N \equiv \underset{\underset{NH}{\|}}{C}\text{-}NH\text{-}C\text{-}NH(CH_2)_6}$; X is $\mathrm{NH_2}$ or $\mathrm{\text{-}NH\text{-}\underset{\underset{NH}{\|}}{C}\text{-}NH\text{-}C \equiv N}$ n is 2-6, and other commonly present in dentifrices.

131378. Agfa-Gevaert N. V. Improvements' in relating to the preparation of a photographic silver halide emulsion material. (June 5, 1970). A photographic silver halide emulsion material is prepared by following the steps of (1) forming a silver halide disperising by allowing to react a water soluble silver salt and a water soluble halide in an aqueous solution of a protective hydrophillic colloid, (2) flocculating the hydrophillic colloid surrounding the silver halide using a dehydrating agent, and (3) separating the flocculate.

131379. Agfa-Gevaert N. V. Production of polyester material of improved surface for adhesion thereto of a subsequently applied coating. (June 9, 1970). A polyester material is treated with an aqueous dispersion of silica particles containing chloral hydrate.

131380. Dunlop Holdings Limited. Improvements in ocuplings. (May 16, 1970). Comprising a pair of rigid members having base portion on having substantially perpendicular limbs and a cushioning member is spaced between the limbing for free play.

131381. Void.

131382. Y. K. R. Rao. Improvements in or relating to a continuous instant distillation still. Having a vertical body closed by a cover, and having a heating jacket round the bottom and sides of the still, and having removable intermediate trays within the still.

MAY 17

131383. Void.

131384. Girling Limited. Improvements in and relating to servo-boosters for vehicle brake systems. (May 21, 1970). Comprises a valve arranged to selectably alter the pressure on one side of the movable wall relative to that on the other side, the valve includes a flexible valve closure member, and a deflecting plate for said member comprising a plurality of individual radial fingers.

131385. Tor-Isteg Steel Corporation. Reinforcement for reinforced concrete-structures. [Addition to No. 129402]. Comprising at least two reinforcing elements each of which comprises longitudinal and transverse rods.

131386. Shell Internationale Research Maatschappij N. V. A process for epoxidizing olefins with hydroperoxides for producing oxirane compounds. Characterised by the use of a catalyst which is essentially insoluble in the reaction mixture, thus providing a heterogeneous system, the catalyst being a silicide of Ti, Zr, V, Nb, Cr, Mo or W, either alone or in combination.

131387. Void.

131388. Void.

131389. Katragadda Ramakrishna Choudary and Shailendra Kumar Hajela. An improved tap changer. Having means for changing the transforma taps without interruption of current supply to the load.

131390. M. L. Patel. Improvements in or relating to machine vices or the like. Characterised in that the moving jaw is provided with a main lead screw, the jaw is also provided with a cylindrical space, fitted wth a portion plunger, through the piston plunger passes a solid plunger pin and a solid pressure pin, one end of the piston pin being engaged with a cam, the cylindrical space being connected to a means for injecting oil into the cylindrical space.

MAY 18

131391. Council of Scientific and Industrial Research. A process for the preparation from "spent sherea robusta resin" of a French polish for wooden furniture without using any methylated spirit. Comprising dessolving a resin consisting of spent *sherea robusta* resin in an organic solvent.

131392. Council of Scientific and Industrial Research. A method for commercial production of hyoscine hydrobromide from datura innoxia and datura metal. Comprising extracting defatted basefied material with benzene recovering hyoscine with mineral acid, and extracting hyoscine from it with chloroform at pH 7.4 to 7.8 and subsequent conversion to hydrobromide by hydrobromic acid in methanol.

131393. Ajit Sankar Bhaduri and Gyan Ranjan Dey. Activated calcium chromate pigment. Comprising making a well mixed mixture in aqueous medium, of calcium oxide and/or calcium carbonate with chromic acid, keeping the pH of the mixture at 8 to 10, calcining the mixture at 900 to 1000°C for two hours, chilling by quenching in water at ambient temperature followed by drying insoluble chilled mass at 110°C.

131394 Stamicarbon N. V. Process for the recovery of acrylonitrile from aqueous solutions. Comprising distilling or stripping the aqueous ammonium salt solution in a controlled pH of 5 or below.

131395. Beckett, Laycock & Watkinson Limited. Improvements in or relating to window units. A window unit comprising at least one pane surrounded by a frame designed to be inserted as a unit laterally.

131396. The Norwich Pharmacal Company. Process for preparing novel hepta-and octapeptides. Comprises linking to an amino acid of formula R_1OH, an amino acid of formula: R_2 OH wherein R_1 is L-alanine, L-or D-leucine, glycine, L-isoleucyl, β-alamine, proline, or histidine and R_2 is L-valyl, L-isolencyl, L-alanyl, tyrosine, valine or arginine in sequence in accordance with the method of forming peptide linkage.

131397. Void.

131398. Sandvik Aktiebolag. Boring bar insert. (March 2, 1971). In which the bushing coaxially surrounding an adjustment sleeve comprises spring means holding the bushing portions against relative rotation while permitting axial movement.

131399. Void.

131400. Sumitomo Chemical Company Limited. Method for producing concentrated nitric acid. Characterized in that a part of the nitric acid obtained in the stripping step is recycled to the nitrogen peroxide absorption step white the remainder in withdraw nas concentrated nitric acid of a 80-90% by weight concentration and the nitrogen peroxide containing air withdrawn from the stripping step and the nitrogen peroxide-containing delute nitric acid obtained in the exhaust gas scrubbing step are introduced in to the nitric acid synthesis step.

131401. Void.

131402. Triplex Safety Glass Company Limited. A method of reactively coating a conductive metal oxide on a substrate surface by sputtering. (May 20, 1970). Supporting the substrate in a vacuum chamber with its surface to be coated opposite a metal cathode whose oxide is to be sputtered, establishing an atmosphere of oxygen and another gas or gases, heating the surface and maintaining it at a selected temperature and establishing a selected potential between the cathode and the substrate.

131403. Void.

131404. Cabot Corporation. Oxygen-rich oxident process for making carbon black and apparatus for use therein. Comprising nurning a fluid fuel with an oxidant gas and injecting into a combustable carbon containing fed stock at 2400°F and quenching to below carbon forming temperature.

131405. International Nickel Limited. Treatment corrosion-resistant chromium containing alloys. Treatment of the alloy in chromic acid and sulphuric acid containing solution in which the film subjected to electrolysis as the cathode to deposite chromium to harden the film.

131406. Compagnie Pechiney. A process and an apparatus for the formation of threaded bores having a dressed surface. Comprising one tool for boring and dressing the bottom of the bore, one threading tool and one dressing tool for the external face of the element.

131407. N. V. Philips Gloeilampenfabrieken. Method of and a device for manufacturing picture display screens. Characterized in that the lamp rotates about an axis which is substantially perpendicular to the support.

131408. Void.

131409. Sreecandath Raman Kutty Menon. Industrial Utilisation of the sheaths of fallen arecanut palm leaves obtained as an agricultural waste. Process for making out of the sheath of fallen arecanut palm leaves which consists of the following operations—(i) trimming the cleaned or chemically-treated, and dried sheaths to specified sizes and making them flat sheets or boards through suitable pressure treatment, (ii) making the outer waxy surface as well as the inner glassy surface of the sheath receptive to familiar bonding agents, (iii) making veneers of uniform thickness out of the above sheaths, (iv) enlarging the size of area of such veneers by splicing them, and (v) making use of such spliced veners to produce ply-boards or laminated boards by the use of bonding agents and the heated platen hydraulic press.

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131410 Void.

131411. Void.

131412. K. K. Xavier. A mechanism to provide high power to an air rifle. An auxiliary air cylinder having closed front end and an open rear and with flanged face fitted to the face plate axially below the barrel a hanger in between a nut and a look nut by which threaded front end of the auxiliary cylinder is supported.

131413. Badische Anilin-& Soda Fabrik Aktiengessellschaft. Production of Anthraquinone. Reacting an appropriate Indan Compound with a suitable diphenylamine in the presence of a vanadium Compound additionally Containing other metals.

131414. Void.

131415. Complett S. p. A. Device for starting or stopping rotation of the main shaft of a hosiery linking machines. Comprises a rotary-cone-and-motor assembly borne by a movable supporting member, a frictional conical surface adapted to frictionally engage the rotary cone and mounted on a cylindrical member which is a bottom extension of the machine mainshaft.

1311416. Farbenfabriken Bayer Aktiengesellschaft. Apparatus for drying rubber masses. An apparatus for drying rubber masses, comprising an expansion screw machine provided with a nozzle plate having nozzles, a heat shielding plate and having protective tubes through which the nozzle project, a conveyor pipe operable by air and cooling means provided for the conveyor pipe and the separator.

131417. Bayer Aktiengesellschaft. Catalytic oxidation of SO_2 to SO_3. Characterized by incorporating in the SO_2 containing gas prior to its introduction into the first catalyst stage an air stream which has been passed through oleum and thereby picked SO_3 in such a proportion that resultant gas fed to first catalyst stage contains about 2 to 10% by voulme of SO_2.

131418. Imperial Chemical Industries Limited. Process for the manufacture of new heterocyclic compounds. (July 10, 1970). Comprising reacting 1-ethyl 6-hydroxy-4-methyl 3 nitrosophrid 2-one with acetic acid and acetic anhydrid in presence of a catalyst.

131419. Void.

131420. Moskovsky Ordena Lenina Khimiko-Tekhnologichesky Institut Imeni D. I. Mendeleeva. Process for preparation of glass composition used in the manufacture of whitecoloured glass crystalline material. Comprises melting raw materials, degassing the melt, cooling the same, forming the continuous band and passing the same through tunnel lehr to produce glass material having : SiO_2-40-60%, Al_2O_3-5-8 per cent, CaO-20-30 per cent, MgO-0.8-3.1 per cent, MnO-0.5-1.7 per cent, Fe_2O_3-O.1-1 per cent, TiO_2-0.2-0.5 per cent, F_2-0.5-2 per cent, $K_2$0-4-7 per cent and ZnS-upto 1 per cent by weight.

131421. Uralsny Zavod Tyazhelogo Mashinostroenia Imeni S. Ordzhonikidze. An apparatus for guiding an ingot in the secondary cooling area of a continuous metal casting plant. Comprising a plurality of rotatable rollers arranged in two parallel opposing series, at least one roller in each of acid two series carrying a tool for scraping sufaces of ingot.

131422. Council of Scientific and Industrial Research. A new process for dewooling of sheep skins and unhairing of goat skins. Process for the production of quality wool/hair as well as unhaired skin/pelt by soaking salted skins in water followed by dewooling/unhairing the soaked skins characterised in that the dewooling/unhairing is done by treating the soaked skins with an unhairing agent which permits the action of the autolytic enzymes present in the skin but prevents the putrefactive action of bacteria.

131423. Void.

131424. Void.

131425. Void.

131426. Wayne Manufacturing Co. Debris displacement unit and a street sweeper vehicle having such debris displacement unit. Comprises a pair of arms terminally carrying an interconnecting squeegee so that large debris displaced by the squeegee may pass between the deflected arms.

131427. The Bendix Corporation. Improvements in or relating to improved friction articles. An improved friction article such as herein described comprising at least a single body composed of semi-metallic friction material said material containing by volume 10 to 50% of metal, 20 to 40% of graphite and more than 15% of a thermo setting phenolic resin binder, wherein the graphite content is partially or totally taken in the form of cynthetic graphite particles all having substantially a size greater than 100 mesh. (U. S. Standard Sieve Series.)

131428. Imperial Chemical Industries Limited. Stripping of coated titanium electrodes. Comprising immersing electrode in hydrogen peroxide at 60°-80°C for 1½ hour and then immersing in hydrochloric acid at 60°-80°C until the coating has become detached from titanium support.

131429. Montecatini Edison S.p.A. Process for the preparation of catalysts for the polymerization of olefines. Reacting (1) a hydride or a metal organic compound of the metals of the 1st. 2nd and 3rd group and (2) the product obtained by putting into contact a titanium compound is engaged by a Ti-X bond wherein X is C-, S-O of an inorganic oxygen containing acid with an anhydrous Mg halide in active form.

131430. Void.

131431. Cabot Corporation. Process and apparatus for producing carbon black. Combusting a liquid fuel and air in an enclosed zone and discharging the product while introducing transversely a feed stock of 75% weight carbon content at a temperature 2400°F for sufficient time followed by quenching and collecting the carbon black formed.

131432. Janssen Pharmaceutica N. V. Process for the preparation of 2, 2-diaryl-4-(4'-4'-hydroxy-piperidino) butyramides. Comprising reacting 3, 3-diaryl-tetrahydro-2-furylidene ammonium salt with 4-aryl-4-piperidinol.

131433. Juza Vladimirovich Mgaloblishvili. Process for the manufacture of laminated plastic materials. Preparing a suspension of thermosetting resin of resol type and plasticized coal-tar, impregnating the obtained suspension with fillers and subjecting the obtained mass to heat pressing.

131434. I. M. Ryabov and A. A. Shlykov. Method of producing soldered or brazed joint. A method of producing a soldered or brazed joint between parts according to which placed into a gap between the parts to be connected within the joint there between is a resilient heat-resistant sealing member made of a material featuring no adhesion with the solder or braze material, the wire is placed onto said sealing member such that a portion thereof should extend outside said solidified solder or braze, when in a molten slate, being used to fill the grip remaining above said sealing member after said sealing member and said wire have been appropriately placed into said gap between the parts to be connected, said molten solder or braze, upon cooling and solidification, forming a joint or seam between said parts.

131435. Natverlal Purshottamdas Kinariwala. Traverse drum for use in winding machines. One retaining element is provided within drum body in contact with ore reinforcement element provided at the cross over location of a traverse groove in the drum.

131436. Natverlal Purshottamdas Kinariwala. Traverse drum for use in winding machine. A conductor plate having an electrical connection with the central shaft is provided on the outer surface of the roll, whereby static charge absorbed by the roll portion covered by said plate travels to said shaft through said plate.

131437. Girish Mohan Kamra. Cooking appliance. Comprising a chamber, a rotatable support means mounted on a shaft and disposed within the chamber, at least a first heating means above the support means and a second heating means below the support means.

131438. Void.

131439. Shyam Sunder Ghose. Process for manufacture of abrasion resistant aluminous refractories. Characterized in that to the high alumina material is added zircon-sand and/or zircon-flour the mix is moulded into shapes and fired at a temperature of about 1400-1450°C.

131440. Shyam Sunder Ghose. Process for manufacture of abrasion resistant chrome bricks. Wherein chrome ore dead-burnt magnesite and Zircon-sand and/or flour are mixed together with a bonding agent and moulded into shapes pneumatically or in presses and fired at a temperature of 1400°-1450°C.

131441. Void.

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131442. Void.

131443. Void.

131444. Void

131445. Void

131446. Void.

131447. Void.

131448. Dunlop Holdings Limited. Flexible hose with tapered bore. (May 21, 1970). Comprising two substantially rigid end fittings, an inner lining layer, at least one layer of reinforcement, and an outer covering layer wherein the end fitting have different internal diameters and the inner lining layer is tapered in bore.

131449. Celfil Company Establishment. Method of making filter plugs for tobacco products and filter plugs made in accordance therewith. Comprises converting a paper web into a wrapped endless filter cord wherein prior to conversion the web is treated with a liquid impregnating agent which chemically modifies at least the surfaces of the fibres into a cellulose compound their freed of excess impregnating agent.

131450. American Home Products Corporation. A precess for preparing Benzo-bicycloalkane amines. Comprises reducing 6, 7, 8, 9, 10, 11-hexahydro-3-methoxy-5-methyl-5, 10-methano-5H-benzocyclononen-12-one, oxide.

131451. Coal Industry (Patents) Limited. Improvements in or relating to synthetic sheets useful as a pitch or field for cricket, tennis and like ball games. (June 12, 1970). Forming a sheet from a compisition containing 25 per cent to 75% of a plasticized polyvinyl chloride material. 5 to 20 per cent of a finely divided films material, 3 to 20 per cent of a natural synthetic rubber and 10 to 50 per cent of a finely divided filler.

131452. Hindustan Lever Limited. Process for the preparation of linalool. Hydrolysing linalyl chloride or bromide in aqueous medium at a pH of 6.0-8.0 and a temperature of 0°.25°C.

131453. Aktiebolaget Svenska Flaktfabriken. Device for electric precipitator. Characterized in that the parallel rows of precipitation electrodes are situated between a number of bars at different heights of the precipitator, the fars having guides opposite each row of precipitation electrodes and the electrodes in each row are linked together in the direction of impact along the plane for the impact device which is designed to strike against the rows of electrodes.

131454. General Elecrtric Company. Selection system for coupling a preselected alternating current generator to main lines carrying alternating current. Includes means for supplying a first, variable voltage including means for comparing the voltage of one of generator terminals with the voltage of a corresponding one of lines and producing a voltage output representative of the difference there between means for supplying a second voltage; and switch means.

May—22

131455. Maschinenfabrik Augsburg--Nurnberg Aktiengesellschaft. Crankshaft assembly. Comprising a crank web with two crank pins or crank pin and one main shaft pin, intermediate parts having annular chamber for joining to adjacent pins.

131456. Sandoz Ltd. Process for the production polyether amines. Product obtained by reacting a polyamine and a polyepithalogenohydrine is reacted with crosslinking agents.

131457. Sandoz Ltd. Process for the preparation of new monoazo compounds. 3-amino-4methylbenzoic acid isobutyl ester is coupled with 2-amino-8-hydroxy-naphthalene-6-sulphonic acid.

131458. Snam Progetti S.p.A. Process for dehydrating ammonia synthesis gases. Carrying out dehydration of gaseous mixture in two stages a first stage wherein gaseous mixture is cooled and condensate is separated and a second stage in series wherein residual water still contained in aforesaid gaseous mixture is removed by absorption or adsorption.

131459. Badische Anilin-& Soda-Fabrik Aktiengesellschaft. Process for the preparation of substituted uretidine-2, 4-diones. Wherein hydrogen chloride is eliminated from an allophanylchloride by treating with organic amine components and inorganic bases.

131460. Williamson Magor & Company Limited. Apparatus for weighing, and for delivering predetermined quantities of tea and like articles continuously and automatically. Comprising a spring-type balance, a rotatable container, a micro-switch and a magnetically operated plunger or like device.

131461. Svenska Aktiebolaget Bromsregulator. Apparatus for providing pressure variations utilisable as signals dependent upon variable compression forces exerted on the apparatus. (July 7, 1970); Characterised in that pumping means are mounted in a piston which serves for transmitting the total compression force to a pressure chamber from spring means mounted in a hydraulic fluid sump.

131462. Joseph Lucas (Industries) Limited. Battery charging systems for road vehicles. (June 13, 1970). Wherein the full wave rectifier comprises four thyristors and two diodes and means sensitive of disconnection of the battery so that gate current is removed from the thyristors.

131463. Void.

131464. Kattepur Subbarao Rangappa. Freezing process for concentration of solutes, separation of solvents and differential concentration of solutes. Comprises freezing the solution in a closed column, allowing peripheral portion of the freezing column to defreeze in ambient temperature, collecting said defreezed portion, and progressively collecting different defreezed portion from the frozen column, the defreezed portions obtained from the periphery of the column having more of solute concentration than the original solution and the portion at the centre of the column being a core of substantially pure solvent.

131465. Void.

May—24

131466. Vinay Kumar. The new, Indian bread or (chapati/roti) making machine. Comprising chiefly an electric motor, an arrangement for preparing dough or proper consistency automatically, a forcing arrangement for pushing the dough, a rectangular adjustable slit, a horizontal rotating plate, two sets of electric heaters.

131467. Karamchand Premchand Private Limited. A process for the preparation of 6-acylaminopenicillanio acid. Process for the preparation of 6-acylaminopenicillanic acid which comprises reacting 6-aminopenicillanic acid adsorbed on an ionic ion-exchange resin with an acid chloride in aqueous acetone or methyl ethyl ketone over the temperature range of 10°-50°C, over the pH range of 5.5-6.5 and isolating the product by conventional procedures.

131468. Shell Internationable Research Maatschappij N. V. Improvements in or relating to the catalytic polymerization of olefins. (May 26, 1970). The activation is carried out by combination of the reaction product with a solid activator prepared by reaction of solid carrier material having a free XH group, in which X represents nitrogen, oxygen, or sulphur, with an organometallic compounds having at least two metal bound hydrocarbyl groups.

131469. Shell Internationale Research Maatschappij N. V. Process for the isomerization of alkylanomatic hydrocarbons. (May 26, 1970). Process for the isomerization of alkylaromatic hydrocarbons, which process comprises contacting a mixture of (a) alkylaromatic hydrocarbons (b) hydrogen (c) steam in an isomerization section at a temperature below 440°C with a catalyst comprising an acidic refractory oxide and a hydrogenating/dehydrogenating metal component.

131470. General Refractories Company. Refractory brick having a metal casing and method and apparatus for manufacturing same. Comprises positioning the brick on a metal plate, bending the portion of the metal plate and securing the over lapping ends of the metal plate.

131471. Chemical Construction Corporation. Process for urea synthesis. Comprising ammonia and carbon dioxide are reacted at pressure 100 to 350 kg./sq. cm., the product is heated at a pressure less than 100 kg./sq. cm., to separate an off-gas from liquid urea effluent, the solution is stripped in an external heated zone by carbon dioxide, the resulting gas is heat exchanged with a fluid to condense ammonium carbamate and the resulting stream with condensate is recycled to urea synthesis.

131472. Ravindra Nath Seth, B. M. Chopra and D. K. Anand. Retractable anchorage and locking device. Characterised in that refractable means are provided with shank allowing said shank to be downwardly displaced and held or support in a refracted position.

131473. Ravindra Nath Seth, B. M. Chopra and D. K. Anand. Press-in type door lock. Comprising lock spindle, handle, profiled member eccentrically fitted to spindle, bracket provided on a frame having receptive means for profile member.

131474. RCA Corporation. Semiconductor device with a aluminium oxide dielectric. Forming a layer of aluminium oxide by depositing it from the vapor phase upon the silicon body, and heating it at a temperature of about 700°C to 1200°C in a wet gaseous atmosphere for a particular time.

131475. Gkn Windsor Limited. Improvements in and relating to twin screw extrusion and injection moulding machines. [Addition to No. 126825]. [Divided out of No. 126825; ante-dated to May 26, 1970]. Wherein each flanged member is composed of a plurality of interengaging coaxial flanged elements or sections

131476. Amsted Industries Incorporated. Improved A. A. R. standards type F coupler. Wherein the top and bottom straps are each formed in a compound curved generated by the radii R_8, R_2, R_1, R_2 R_8, in that order, R_1 being a central radius struck from a point substantially on the longitudinal centre line of the shank, R_8 being a side radius struck from a point within the pin hole so that the generated ore is tangential to the side walls and R_2 being a connecting radius struck from a point within the pin hole to generate one are tangential to the arcs generated by R_8 and R_1.

131477. National-Standard Company. Tire building apparatus. Comprising an expendable drum, drum expanding and contracting means, end drum, tire bead shoulder supporting means drum carrier means, tire bead shoulder carrier means shoulder forming.

131478. Raytheon Company. A real time frequency band conversion system. (April 21, 1971). Comprising a plurality of memory systems, means for feeding samples of an imput signal into each memory system and means operative in each time period to extract the samples in a memory system other than that into which samples are being fed, thereby to provide an out put signal.

131479. N. V. Philips' Gloeilampenfabrieken. Method of producing novel basic substituted-alkylidenaminooxyalkyl-carboxylic-acid esters. Obtained by reacting corresponding acid derivative with alcoholic or halogen derivatives.

131480. N. V. Philips Gloeilampenfabrieken. Method of manufacturing a semiconductor device and semiconductor device manufactured according to the method. An impurity is diffused in the silicon body to obtain a channel stopper which is present below the inset silicon oxide layer adjoins the source and drain zones and has a higher doping concentration than the adjoining part of the silicon body.

131481. Void.

131482. Void.

131483. Void.

131484. Void.

MAY—25

131485. Imperial Chemical Industries Limited. Process for the manufacture of alkanolamine derivatives. A solution of 2g. of 1-chloro-3-(P-carbamoylmethoxypeuoxy) propan-2-01 and 15 ml. of is isopropylamine in 15 ml. of methanol is heated in a sealed tube at 110°C.

131486. Bayer Aktiengesellschaft formerly known as Farbenfabriken Bayer Aktiengesellschaft. Preparation of iron oxide and hydrated iron oxide pigments. Comprises treating aqueous slightly acid solution of ferrous salt with gas containing oxygen in the presence of metallic iron containing material, wherein the metallic iron containing material having a particle side of 0.5_u to 500.

131487. Mefina S. A. Presser foot for a sewing machine. Comprising a sole plate pivoted to a support attachable to the presser bar, a portion of the sole, plate situated behind the needle passage being retractable and stop means limiting its oscillations.

131488. Girling Limited. Improvements in disc brakes for vehicles. (May 29, 1970). Wherein each of the pair of guiding members forming part of the stationary drag-taking member comprises an arm having an extension extending over the peripheral edge of the disc, oppositely facing innermost faces of the guiding members each being formed with three co-planar surfaces upon which the caliper is slidably guided.

131489. Albright & Wilson Limited. A method for the manufacture of granular roadstone . Comprises heating particles of a finely divided spinel to a sintering temperature and obtaining therefrom granular sintered roadstone.

131490. Imperial Chemical Industries Limited. Shipping of coated titanium electrodes. (June 4, 1970). Comprises immersing the electrode in an aqueous mixture of a strong mineral acid with hydroflouric acid and/or a precursor compound that will give hydroflouric acid by reacting with the mineral acid for a time and at a temperature sufficient to detect the coating from support.

131491. Inplast Handelsgesellschaft m.b.H. A sports striking instrument E.G. A Hockey stick or Glof Club. Characterised in that it is made of one piece from thermoplastic material provided with fillers and entirely or in part with inserts of a material having physical characteristics different from these of the thermoplastic material.

131492. Kharkovsky Aviatsionny Institut. A machine for working metals by impulses. Characterised in that the impulse chamber is fitted with side channels of the guide sleeve beneath the plunger and forming along the primeter of the chamber a common closed conduit, filled with the fluid bed via the said channels.

MAY 26

131493. Council of Scientific and Industrial Research. Preparation of the active principles of Senna. Consists in extracting senna powder with an organic solvent in the presence of ammonia or any other organic base and precipating the Senno sides as calcium salt by adding a Soluble Salt. Charactered in that the extraction is carried out in a binary mixture of methenol and tolune.

131494. Void.

131495. Void.

131496. The Goodyear Tire & Rubber Company. Improvements in pneumatic aircraft tire. Characterised by cords in belt plies having a modulus of elasticity of 20 to 35 gms per denier and a radial repression in the tread at the midcircumferential centre-plane.

131497. Borgs Fabriks Aktiebolag. Device for restoring the retractable barrier after arresting an aircraft. Shaft of the absorbant is connected to the motors or pumps fitted with feed lines for passage of drive fluid from the accumulator, said feed lines being interconnected by a line incorporating a constriction point, said line being fitted with another line for drawing fluid from a tank.

131498. Void.

131499. ESS Engineers and Consultants. Device for shrouding a stream of metal teemed through a slidable gate. Comprises a sleeve supported by a mounting secured to the vessel bottom, a enclosure at the top of the mould, an inlet for the inert gas and a gap provided in the mounting of the sleeve.

131500. Avon Rubber Company Limited A method of sealing a pipe joint and the product thereof. (May 27, 1970). Comprising placing a solid sealant material at a joint between two pipes, heating the material, fitting a removable pressing mould around at least one of the pipes, applying pressure on to one face of the material by moving a portion of the mould axially along one of the pipes, maintaining the mould portion in contact with the material until a seal is assured.

131501. Fabrica Italiana Magneti Marelli S.p.A. Brush holder for low-power electric motors. Characterized in that each of the covers consists of a metal plate equipped with opposed resilient cars to engage corresponding shaped projections situated near the edges of the opening of tubular body, whereas said plate shown at least one torque to retain electrical leads associated with the brush.

131502. Mitsubishi Jukogyo Kabushiki Kasisha. Reference samples suitable for use in a method of determining non-destructively a component of a metallic material. Comprises a substance capable of bearing water and which is impregnated with salts of two or more metals a cathode which is contracted with the metallic material through the water-bearing substance.

131503. Siemens Aktiengesellschaft. A die suitable for use in the application of a covering layer to a wire and a method of applying a covering layer to a wire using the die. (November 12, 1970). A die for completely encircling copper or copper alloy wire coming out of a bath of tin or tin alloy inside surface of which being formed with recesses distributed around it whereby there are also formed inward projections between adjancent recesses and the wire on leaving the die has areas of increased tin or tin alloy thickness distributed around it, the tips of the projections, in a cross section of the die lying on one circle concentric with it, there being at least about 3 but not more than about 15 of the recesses per millimeter of the circumference of the smaller circle.

131504. Siemens Aktiengesellschaft. A method of producing a coppr or copper alloy wire, having a layer or tin or ion alloy on in (Nomber 12, 1970). Method of producing a copper or copper alloy wire having a covering layer of tin or tin alloy which comprises the step of passing the copper or copper alloy wire through a tin or tin alloy the wire on leaving the bath being passed upwardly through a die which is in direct contact with the tin or tin alloy in the bath and removes surplus tin or tin alloy.

131505. Siemens Aktiengesellschaft. A method of producing a copper or copper alloy wire having a layer of tin or tin alloy of thickness greater than 3 microns on it. November 12, 1970). Including the step of causing the wire to run lengthwise through means for making it longer and thinner, such that its diameter reduces from a first value to a second value, which is substantially constant along the length of the wire and the thickness of the tin or tin alloy layer reduces so that everywhere it is greater than 3 microns.

131506. Siemens Aktiengesellschaft. A method of applying a covering layer to a wire. (November 12, 1970). Method of applying a layer of tin or tin alloy of thickness greater than 3 microns to a copper or copper alloy wire in which the wire is passed through a bath of tin or tin alloy and then through a die which removes the surplus tin or tin allow from the wire as the wire passes through it.

131507. Void.

131508. R. K. Damani. A process for producing laminated sheet material or articles. [Addition to No. 123776]. Comprising the steps, the sheet forming the lamination is moulded in a moulding machine and is removed therefrom before it completely solidifies and is placed on one side of the sheet to be laminated and a gentle pressure is applied to effect the bonding.

MAY 27

131509. Explosives and Chemical Products Limited Blasting explosive composition and a process for preparing the same. (June 9, 1970). Comprises at least one water soluble inorganic oxygen releasable salt, at least one water insoluble non-self-explosive hydrocarbon or halogenated hydrocarbon fuel, water, a surfactant and at least one sensitizer.

131510. Societe Des Fonderies De Point-A-Mousson-Joint between the source of a tubular element and male end of another tubular element. Wherein the socket of a tubular element comprises adjacent its entrance end retaining ring fixing means, a radially inwardly extending flange for receiving and centering other tubular element, a cylinderical recess for sealing element and a frustoconical face tapering down to the diameter of cylindrical recess and ring having a frustoconical portion corresponding to said frustoconical face.

131511. Girling Limited. Improvements in and relating to servo-boosters for vehicle brake systems. (January 15, 1971). Comprising a valve arranged to selectably alter the pressure on one side of the movable wall relative to that in the other side.

131512. Hindustan Lever Limited. Method of making an improved pig feed. (June 3, 1970). Comprising culturring one or more of the E. Coli serotypes 08, 045, 0139, 0141, 0147 and 0149, killing the cultured bacteria to cause release of endotoxins and mixing the endotoxins with nutrient material.

131513. Combustion Engineering, Inc. Improved method of processing the sodium sulfide and sodium carbonate containing spent liquor from a polysulfide pulping process. Characterized by separating H_2S by stripping with a flue gas stream containing CO_2 contacting said stripped spent liquor with an oxygen-containing gas stream, collecting the effluent gas streams from the carbonating, stripping and oxidizing-decomposing steps, contacting said combined gas stream with a liquid catalyst, separating elemental sulfur from said liquid catalyst and reacting said elemental sulfur with white liquor.

131514. Leningradsky Metallichesky Zavod Imeni XXII Siezda Kpss. Improvements in or relating to a connection of replaceable suction cone of a hydroulic turbine draft tube with suction bend of said draft tube. Comprises a cylindrical joint ring with a flange resting against an insertion flange of the suction bend, the joint ring being closely mated by its cylinderical portion with a cylinderical collar of the suction cone and rigidly interconnected by means of hollow distance bolts with nuts and tie pieces.

131515. National-Standard Company. A method of, and an apparatus for, heat treating an elongated component. [Addition to No. 125117]. Comprises furnace means having reducing and sentering means for the elongated component, forming means, conveyor means, and supporting means for the conveyor means for supporting the elongated component in a sinuous configuration.

MAY 28

131516. Council of Scinetific and Industrial Research. Improvement in or relating to schlieren apparatus. A reflector is situated inside a light source a slit is placed at the focusing point of the reflector, the silt in turn is located is the focus of a spherical mirror, another spherical mirror is placed in line with the first mirror and an object to be studied, a knife edge is placed at the focus of the second mirror and a screen is placed behind the knife edge.

131517. Atul Amritlal Shah. Locking device for a telephone. Consisting principally of (1) a first lever mechanism actuated by the dial each time it is rotated and which in turn causes an associated spring loaded toothed wheel (2) a second lever mechanism which prevents the said wheel to return to its original position (3) a third lever mechanism for unlocking the said first and second mechanism (4) and a lock openable by a key which in its open position by a long thereof causes the second lever mechanism not to present the return of the wheel to its original position.

131518. Eisenwerk-Gesellschaft Maximilianshutte m.b.H. Method and converter for refining pig iron. Comprising blowing a jet of oxygen with powdered lime into melt through converter bottom. the jet being surrounded by a sheath of jacket gas.

131519. Void.

131520. Void.

131521. Halcon International, Inc. Process for the preparation of polyethylene terephthalate. Comprises a heating a mixture of a diester consisting of bis-(beta-acyloxyethyl) terephthalate and is oligomers with H_2O until from 25 to 100 per cent of the acyl moieties are liberated to give a hydrolyzate of bis-(beta-hydroxyethyl) terephthlate with polymerizing.

131522. Dunlop Holdings Limited. Improvements in flexible articles. Comprising a body including polymeric material and having a surface layer of nonwoven filamentary material applied to the body, the filamentary material being impregnated with a polymeric material.

131523. Joseph Lucas (Industries) Limited. Electrical lamp assembly for road vehicles. (June 20, 1970). Screw fastening means includes a portion which extends through the reflector unit, so that the said screw fastening means can by used secure the lens unit to the reflector unit, and to secure the lamp assembly in position on vehicle body.

131524. Josef Bucheli. Toy building element construction. Comprising a clamping element having first and second arms, means pivotally interconnecting said arms, a spring having a ring shaped portion, the opposite common ends of said arms being defining a clamping jaw.

131525. Void.

131526. Ahmedabad Textile Industry's Research Association. Optic-electronic slub-catcher device for textile winding machines. Comprises a light source, an adjustable slit a system of lenses and an electronic circuit.

131527. Bhanu Chandulal Shah. A device for teaching numerals. [Addition to No. 121170]. Comprising at least one prinicpal sheet depicting one numeral and at least one focusing sheet consisting of a focusing window which comes against the numeral when the focusing sheet is placed on the principal sheet and another numerial written adjacent to the focusing window.

131528. Birla Research Institute for applied Sciences. An improved method for preparing cellulose acetate by gas or vapour phase acetylation of cellulosic materials. A process for acetylation of cellulosic materials which comprises impregnating a batch of cellulosic fibres with conventional acetylation cataylst, blending catalyst impregnated fibres with non impregnated fibres, if desired spinning the blend into yarn whereafter the blended yarn or fibres is acetylated.

131529. The Upjohn Company. Process for the preparation of 3-alkyl-7-phenylpyrimido [1, 2-a] [1, 4] benzodiazepin-1(5H)-one. Comprises treating a 2-amino-5-phenyl-3H-1, 4-benzodiazepine with 2-oxetanone and heating the product in a hydrocarbon high boiling solvent.

131530. Eisenwerk-Gesellschaft Maximilianshutte m.b.H. Improvements in processes and apparatus for making steel. A process for making steel in which jets of oxygen surrounded by an inert jacket gas are blown into melt and a convertor for carrying out said process comprises a refractory lined jacket an inserted bottom with blowing nozzles for blowing oxygen surrounded by a jacket of jacket gas.

131531. Dunlop Holdings Limited. Improved toothed belts and method of producing the same. Comprising a stretchable fabric layer and a continuous strip of elastomeric material having embidded therein at least one wire cord extending longitudinally with respect to the belt and comprising at least one bunch of fire gauge metal filaments.

131532. Dunlop Holdings Limited formerly known as the Dunlop Company Limited. Pneumatic tyres. (June 3, 1970). Comprises a tread, a pair of annular beads and sidewalls extending between the tread and the beads and a reinforced strip extending around the bead.

131533. Simms Motor Units Limited. Liquid fuel injection pumping apparatus. (May 30, 1970). Comprising a temperature sensitive element which exerts a control over actuating member and control means whereby when the engine is started from cold the liming of injection of fuel will be retarded and excess fuel will be supplied.

131534. Joseph Lucas (Industries) Limited. Electrical switches. (July 18, 1970). Includes a resilient diaphragm supported between first and second body parts, a plunger abutting at one end against said diaphragm and at its other end against a movable contact plate fixed contact being carried by said second body part and the pressure of the fluid in inlet passage in use acting on said diaphragm.

131535. Dunbeath Holdings Pty. Limited. Elastomeric roller and method of making same. Comprising a rigid cylindrical sleeve member having inner and fuzzy outer surfaces, and formed by fibrous synthetic material, and another elastomeric sleeve having inner and outer cylindrical surfaces, said inner surface being bonded to said outer surface of rigid sleeve.

131536. Stamicarbon N. V. Process and apparatus for the recovery of ammonia and carbon dioxide from the tail gas of a urea synthesis. Comprising the step of diluting the gas mixture leaving the, or the last, absorption zone with a gaseous substance so as to substantially eliminate the risk of explosion of the said remaining gas mixture, and discharging the resulting gas mixture from the said absorption zone.

131537. Miller Printing Machinery Co. Apparatus for controlling both axial and circumferential register of a plate cylinder. Comprising a plate cylinder having a shaft end portion, a hub member, a ring member coaxially positioned on said hub member, a key member positioned in ring member slot and having a key portion extending into hub member slot.

131538. Henery Sykes Limited. Improvements in or relating to wellpoints for de-watering ground. (June 1, 1970). Comprising a tubular body of shape sustaining plastics material, a separable lower end closure part, a separable upper end part, an elongated separable suction pipe, and a sleeve of synthetic fabric surrounding the tubular part having portions which are separably attached to wellpoint.

131539. Stauffer Chemical Company. A composition useful as a lubricant in hydraulic pressure devices. Comprises base stock material and phosphonium compositions of compounds like methyl trioctylphosphonium dimethyl phosphate.

131540. Varta Aktiengesellschaft. A block type casing for a multicell storage battery or accumulator. Comprises a ver and a housing each provided with cell partitions whose edges are flush with the outer border, the edges of the cell partitions of the cover and/or of the housing being provided for at least a parts of their length with a rib the width of which exceeds the thickness of the cell portion.

131541. Metallgesellschaft AG. and The Steel Company of Canada Ltd. Improved continuous charging of an electric arc steelmaking furnace. [Addition to No. 123673]. Charge is melted to produce a slag covering the bath of molten metal, thereafter the furnace is charged with discrete iron-bearing material by forcibly propelling the material towards the bath at an angle to the horizontal in the range 40—80 degrees, and metal melted and refined.

131542. E. I. du Pont de Nemours and Company. Process for preparation of pulverulent pesticidal formulations. Comprising reacting a compound selected from the group consisting of methyl O-(methylcarbamyl)-thiolacetohydroxamate and methyl O-carbamyl thiolacetohydroxamate with an adsorptive uncalcined mineral smectite and adding, if desired, upto 3 parts surfactant and/or 15 parts dispersing agent and/or 2 parts corrosion inhibitor and/or 2 parts conditioning agent.

MAY 31

131543. Void.

131544. Void.

131545. Halcon International Inc. Process for preparing glycol esters from olefinically unsaturated compounds. [Addition to No. 127395]. Contacting an olefinically unsaturated compound and molecular oxygen is an oxidation zone comprising a carboxylic acid in liquid phase and a catalyst and maintaining an equilibrium water concentration below 15 weight percent but which is at least about 0.5 weight percent.

131546. Dunlop Holdings Limited. Tyre mould. Mould segments are disposed between mould plates, and heating means are associated with said segments in which a heating medium enters said segments directly.

131547. Void.

131548. Rca Corporation. Improved contact structure for semiconductor devices. (January 13, 1971). Comprises a semiconductor body having a major surface, an insulating coating overlying surface, coating having an aperture extending to surface, a first layer of a metal having relatively high temperature properties overlying coating and aperture, a second layer of a metal having relatively low temperature properties and spaced apart from first layer, a polycrystalline semiconductor layer interposed between and contacting first and second layers and terminating means contacting second layers,

131549. Rca Corporation. Insulated gate field-effect transistor. Comprising a source and drain defining the ends of a plurality of current carrying paths of controllable conductivity and a gate separated from said current path by an insulator.

131550. Void.

131551. Farbwerke Hoechst Aktiengesellschaft Vormals Meister Lucius & Bruning. Process for the production of water-soluble metal complex disazo dyestuffs. Comprising coupling of metal complex compound of a monoazo dyestuff with a diazonium compound of an arylamine.

131552. Farbwerke Hoechst Aktiengesellschaft Vormals Meister Lucius and Bruning. Process for the manufacture of acyl acetic acid aryl amides. Characterized in that the acyl acetic acid aryl amide is separated by filtration after the reaction and the mother liquor is subjected to after condensation by heating at reflux temperatures and additional yield is recovered.

131553. Ralston Purina Company. Method of producing and preserving a food product and the food product obtained thereby. Comprises impregnating 10 per cent to 30 per cent by weight of 1.2 propanediol with the food source and balancing the nutritional properties by addition of vitamins and minerals and water.

131554. Void.

131555. Sandoz Limited. Process for the resin finishing of cellulosic fabrics and cellulosic fibre finished by the process. Comprising padding the fabric with a solution containing (a) an methylol or N-alkoxy methyl compound, (b) an acid curing catalytic agent and (c) a copolymer consisting of N-vinyl lactam units and at least 5.5 weight per cent vinyl alcohol units, drying and heating the fabric at 120—180°C to cure the resin.

131556. Walchandnagar Industries Limited and Jyoti Prasad Mukherji. Improvements in or relating to scrapers for discharging material retained inside centrifugal baskets. Comprises an upright column to which are attached two or more shoes for scraping all the said shoes being in alignment with one another.

131556. International Nickel Limited. A vibratory power generator. Comprising a magnetostrictive transducer including a core containing bilinear magnetostrictive material and first and second electrically conductive coils, each positioned with respect to the core so as to be electromagnetically coupled with the core when electric current is passed through the coil.

131558. Harbans Singh. An improved device more particularly of the regenerative dynamometer type used for testing on load of prime movers, torque converters and like power transmission devices. Comprises an infinity variable driven thereby enabling the machine under test to be tasted at different speed and any design range of loads.

131559. Void.

JUNE 1

131560. Stanadyne Inc. Throwaway fuel oil filter cartridges. Comprises a sealed housing, a filter element, dividing it into entrance and exit chambers, a base wall housing abutment means.

131561. Hajtomu Es Felvonogyar. Process and apparatus for obtaining articles sprayed with colorants, powders, fibrous materials or the like. Before spraying, materials is led between electrodes of a capacitor spaced by a relatively small distance apart, the electrodes being isolated from each other by means of a dielectric and being charged to a different potential.

131562. Void.

JUNE 2

131563. Glaverbel. Method of bending sheet blanks. (June 2, 1970). Preheating zone or zones is or are located on forward portion of carriage route and at least the cooling zone or zones is or are located on the return portion of said route.

131564. Uss Engineers and Consultants Inc. Method of making rim-stabilized steel ingots. Comprising teeming rimming steel until the mould is about 90 to 95% full, interrupting teeming for 1/2 to 2 minutes, continuing the teeming and adding 1.5 to 2 pounds of molten aluminium per ton of steel before the completion of teeming.

131565. Girling Limited. Improvements relating to disc brakes. (June 2, 1970). Angular movement of pressure plates to initiate the application of the brake is effected hydraulically by a piston working in a cylinder mounted on the brake housing with its axis substantially at right angles to that of the brake.

131566. British Industrial Plastics Limited. Selection means for the control system of an automatic machine and automatic machines incorporating the same. (June 18, 1970). Comprising a matrix of two position switches and a selector member cooperable with said switches the selector member being a stiff plate provided with a member of apertures and arranged to be urged into contact with a switch array to depress the operating members of all the switches except the ones located against the apertures.

131567. R. Enya. A device and a method for making calcium carbide. Placing lime stone and coke in eccentrically movable vessel injecting and burning an oxygen acetyline mixture in the vessel, while enclosing the mixture thus injected with oxygen jet curtain and forming a heat insulating protective air curtain along the inner surface of side wall of the vessels.

131568. Grupul Industrial De Chimie Tirnaveni. Process for manufacturing powdery and granulated aluminium sulphate. Spraying aluminium sulphate solution in inside space of a spray dryer, of the atomizer or fluidization appliance type.

131569. Euclid, Inc. Exhaust system for a load dumping vehicle. A first exhaust duct connected to the prime mover and to the frame; a second exhaust duct connected to the body.

131570. Void.

131571. Pikington Brothers Limited. Improvements in or relating to the manufacture of float glass. (June 4, 1970). Comprising producing thermal homogeneity in the molten metal of the bath at the glass/metal interface in a zone is in the range $10^{5—25}$ to $10^{6—75}$ poises.

131572. Freya-Plastic Franz Delbrouck G.m.b.H. A stackable transportation crate. The crate having conical side walls and a base formed of intersecting webs in which at least two further webs pass through each intersection each further web being drawn upwardly in front of support surfaces to form holding web which is inclined so as to conform with the outline of the cups.

JUNE 3

131573. Ciba-Geigy AG. Air pressure operated dispenser. Comprising a cylinder and a piston displaceable therein, and actuating means adapted for displacing the piston in the cylinder to compress air in the latter to serve as propellant, on the one hand, and for moving the said valve shaft or shaft, on the other hand, thereby actuating the obturating means to open the propellant and product flow paths.

131574. Ciba-Geigy AG. An aerosol dispenser. Wherein the product is housed in a product container and coupled to an aerosol propellant cartridge separate from the product container through a coupler-aspirator, and wherein a single actuation causes the propellant to aspirate the product through the coupler-aspirator.

131575. Void.

131576. The Dow Chemical Company. Hydration of nitriles to amides using heterogeneous cupreous catalysts. The reaction is conduct in the presence of a catalyst which is a mixture of copper oxide and an oxide of a metal like benum magnesium, mercury zeroonium aluminium.

131577. R. J. Reynolds Tobacco Company. Process for converting nitriles to amides. Characterized by passing an aqueous solution or aqueous emulsion of a nitrile compound through a bed of manganese dioxide to convert the nitrile to the corresponding amide.

131578. Void.

131579. Void.

131580. Void.

131581. Void.

131852. V. K. Arora. A machine for cleaning of spark plugs. Comprising a housing an opening in the housing, plug holder fitted at the said opening means for cleaning the plug by abrasive material and compressed air.

131583. Standard Telephones and Cables Limited. Plastic insulated electrical cable conductors. (June 30, 1970). Utilizing a plastics extruder including a core tube holder and continuously passing the conductor through the holder and the extruder whilst applying a pulsating air supply to the input side of the core tube holder.

131584. Rederiaktiebolaget Nordstjernan. Process for the production of tungsten powder. Exposing tungsten powder to a mechanical comminution and/or heat treatment at 400°—1200°C in an atmosphere containing hologen gas or hydrogen halide.

131585. N. V. Phillips' Gloeilampenfabrieken. Transistor amplifier arrangement. (June 5, 1970). Characterised in that the base is furthermore coupled with a source supplying a further biasing current, which compensates at least partly the influence of the base emitter voltage so that the biasing base current of said transistor is substantially proportional to the said supply voltage.

131586. Mail Order Sales Private Limited. Improvements in or relating to insect traps. Comprising a channel shaped member, a cover for the said member adapted to be fitted but removably thereon one or more trap doars fitted on the open end of each of the open ends of the channel shaped member.

131587. A. C. Padamsee. An ornamental device for containers. The cover having a plurality of part cylindrical and/or part spherical lense like projections. means for securing the cover over the pattern or picture and means for moving the cover over the pattern or picture.

131588. Gulamhusein Ahmedally & Company. An improved drafting table. Comprising three frames secured together to constitute a triangular stand. means for supporting a drawing board from the stand, and means for varying the inclination with respect to vertical plane and the height relative to horizontal plane.

JUNE 4

131589. Council of Scientific and Industrial Research. An apparatus to count the number of warpandweft yarns in cloth. Comprises a microscope with a rack and pinion device moveably mounted on a carriage fixed on a stage having an opening for a graticule scale, a light source and a cloth moving device.

131590. Void.

131591. Imperial Chemical Industries Limited. A method for the preparation of thickened slurry explosives and nozzles for use in such method. Comprises feeding a crosslinking agent to the surface of a column of slurry explosive by a nozzle comprises tubular member an inlet end and a discharge end having a discharge aperture.

131592. Imperial Chemical Industries Limited. Monoazo dyestuffs. (June 22, 1970). Comprises coupling diazotized 2, 4-dinitro-5-chloroaniline with 2-methoxy-5-acetylamino-N-ethyl-N-[6-](6-methoxy-ethoxy carbonyl) ethylaminiline].

131593. Colgate-Palmolive Company. Dentifrices with iridescent effect. Wherein non-toxic iridescent or pearlescent flakes being dispersed in an amount up to about 10% by wt. in a transparent tooth base.

131594. Void.

131595. Kores (India) Limited. Apparatus for imparting electrostatic charge to a photo-conductive layer or plate. Having a stationary corona discharge unit and a blower means, so disposed towards each other and to a photoconductive plate that uniform discharge of charged air is distributed evenly over the entire surface over the plate.

131596. Hindustan Lever Limited. Treatment of cold water insoluble tea extract. Comprises oxidising an aqueous dispersion of the cold water insoluble tea solids by molecular oxygen and treating the resulting solution with a sulphur compounds.

131597. Void.

131598. Void.

131599. L. Givaudan & Cie Societe Anonyme. Process for cis-dihydrothujopsene with an oxidant in an anhydrous cis-dihydrothujopsene with an oxidant in an anhydrous medium.

131600. Bunker Ramo Corporation. Improvements in electric contacts. Includes a contact element of electrically conductive material contained within slot having a base portion, a contact portion resiliently coupled to solid base portion, and a positioning portion engageable with mating electrical connector.

131601. International Fastener Establishment, Press-on and split-off type fastener and device for its manufacture. (December 29, 1970). Fastener member having a plurality of wave-formed strips of fixed width arranged in parallel, each of the strip having protrusions and recesses alternately in a continuous manner, the protrusions and recesses in any two adjoining wave-formed strips being staggered in position in a fixed relationship.

131602. Emhart Corporation. A system for inspecting a liquid filled transparent container. Comprising a means for rotating the container a television camera for generating successive vedeo frames, a memory device, switching means and a comparator for generating an error signal.

131603. Hindustan Miscellaneous Enterprises. A method for reconditioning cracked and/or rejected ingot moulds and slag pots. Comprises cutting a groove around the cracked area, polishing the groove so cut, drilling holes therein, fitting the holes with metal pieces and thereafter electrode welding the faces of the groove.

131604. N. V. Philips Gloeilampenfabrieken. Method of manufacturing magnet cores consisting of a soft-magnetic ferrite and magnet cores manufactured by this method. Characterized in that a finely divided starting mixture of iron oxide, copper oxide, lithium oxide, zinc oxide and possibly cobalt oxide having a composition expressed in molecular percentage of the metal oxides in which the lithium is supposed to be present exclusively as a component of a bivalent complex oxide of a composition according to the formula (Li$_0$. 5 + Fe^{3} +)0, and in which the iron is not included in the notation of the 0:5 quantity of iron, expressed in molecular percentages Fe_2O_3.

JUNE 5

131605. Council of Scientific and Industrial Research. A size-box level control device for sizing machines in the textile industry. Controlling the level of size solution in a size box comprising of (a) a float ball assembly consisting of a lever and a ball, and (b) a quick opening valve connected to float ball assembly, the said quick opening valve consists of a valve body and plunger, whereby when the level of the size mixture falls, the float ball slides downward along with the lever thereby opening the valve, allowing more size solution to flow into the size box, thereby maintaining the level of the size solution.

131606. Council of Scientific and Industrial Research. Improvements in or related to a process for the preparation of gamma ferric oxide. A process for the preparation of finely divided non-stoichiometric black oxide of iron, consisting of crystalline particles of substantially uniform size having diameter one micron or less, which comprises heating finely divided crystals of ferrous oxalate less than one micron in diameter in a current of steam at atmospheric pressure and at a temperature of 350°—550°, heating being continued until the said compound is substantially completely converted into a black oxide of iron, cooling it to room temperature in the absence of air above 100 . crushing the obtained dried product, the chemical composition magnetic properties and crystalline structure of which deviate from those of ferrosoferric oxide and approach those of gamma ferric oxide.

131607. Council of Scientific and Industrial Research. A process for selective reduction of iron oxides in complex ores. Feeding complex ore at the top into a vertically elongated shaft furnace into which are also introduced at the middle of its height, intensely hot and reducing gases mainly carbon monoxide and hydrogen.

131608. H-U Sohr. Apparatus for winding a wire of plastics materials particularly for further forming into a zip fastener. Wherein a wire guide circulates around an arrested winding pin which is rotatably positioned in the wire guide is provided with a mass of such magnitude that its inertia prevent a rotary entrainment of the pin.

131609. Hydrocarbon Research, Inc. Low sulphur fuel oil and a process for producing the same. Comprises (a) passing an oil coal slurry through a reaction zone operating under a hydrogen partial pressure and (b) removing an effluent and separating a solid containing fraction from said effluent and (c) recovering a hydrocarbon fraction boiling above 400°F plus.

131610. Dunlop Holdings Limited. Flexible flame-resistant polyurethane foams and methods of making them. (June 19, 1970). In which a polymeric polyol is reacted with a tolylene diisocyanate (T.D.I.) in a foam-forming reaction mixture comprising a catalyst and blowing agent for the polyurethane said mixture containing (a) as a foam modified a substance normally effective as a catalyst for the polymerisation of tolylene discoyanate, and (b) an anti-ageing additive (such as herein described) substantially to limit any deleterious effect of the foam modifier on ageing of the polyurethane foam.

131611. Dunlop Holdings Limited. Process for the production of flexible polyurethane foam. (June 19, 1970). Comprising interacting an organic polyisocyanate and a polymeric polyol, in which the polyol component comprises a mixture of (a) a poly (oxythylene) poly (oxy-propylene) polyol and (b) a poly (oxyalkylene) diol or triol.

131612. Centro Sperimentale Metallurgico S.p.A. A double delivery lance for refining the steel in the converter processes. Characterized in that the discharging nozzles of the main conduit diverge conically with respect to the lance axis downwardly by an acute angle comprised from 10° and 60° and are arranged symmetrically and the discharging nozzles of the secondary conduit are downwardly inclined with respect to the lance axis by an acute angle comprises from 10° and 60° not necessarily coinciding with the former and symmetrically arranged.

131613. Kadaviparambil Kacko Xavier. A Mechanism to feed each pellet to an air rifle. Rear end of the barrel is fixed in a screwed socket cum chamber face plate, a chamber ring loaded with a number of pellets and fitted behind said face plate and a cylinder having a closed front end fixed to the rear face of said face plate.

131614. Dr. Tuhin Kumar Roy and Sunil Dey. An improved process for nickel and cobalt extraction from lateritic and limonitic nickeliferous ores. [Divided out of No. 128717; anti-dated to October 6, 1970]. Treating the liquor with nickel or cobalt powder or a reducing gas such as hydrogen sulphide to reduce the cobaltic amine complexes to cobaltous ammine complexes.

131615. Dr. Tuhin Kumar Roy and Sunil Dey. An improved process for nickel and cobalt extraction from lateritic and limonitic nickeliferous ores. [Divided out of No. 128717; anti-dated to October 6, 1970]. Mixing 3 to 6 parts of fuel oil in 100 parts of dried calcined ore and heating the mixture in a furnace to a temperature above 1550°C.

131616. Void.

131617. Mrs. Nargis Samy Engineer. Improvements in or relating to spoons, forks, and the like. Characterised in that it consists of a handle member which is rigidly formed or pivotally mounted at an angle varying from 10° to 90° inclined to the horibontal line of the shallow bowl forming the spoon as the fork member.

131618. Void.

June 7

131619. Girling Limited. Improvements in or relating to disc brakes [Addition to No. 110741]. Comprising a rotor having holes brake disc secure by fastener wherein the or each said disc comprises a plurality of separate segments with gaps in between.

131620. Colgate-Palmolive Company. Speckled dentifrice gel. Comprising an aqueous liquid and alkali metal carboxy methyl cellulose gelling agent having incorporated therein impalpable, non-toxic, colored particles of the water-insoluble salt of carboxymethyl cellulose and a polyvalent metal of specified character.

131621. Void.

131622. Void.

131623. Void.

131624. Void.

131625. **Mitsui Toatsu Chemicals, Incorporated and Toyo Engineering Corporation.** Process for concentrating an aqueous urea solution to substantially water-free molten urea. Comprises heating aqueous urea solution at 40°C to the melting point to obtain urea slurry with less than 70% of crystals heating same above melting point to melt crytals to obtain molten urea.

131626. Void.

131627. Owens-Corning Fibreglas Corporation. Improvements in or relating to method of making thermal insulation. [Addition to No. 122564]. Saturated steam at a pressure of from 100—350 pounds per square inch is introduced into the system to increase the pressure in the system to 100—350 pounds per square inch, and the superheated steam maintained at a pressure of 100—350 pounds per square inch.

131628. National Building Organisation. Pyro-processing unit for heat activation of clay minerals. Comprising a fluidised bed calciner column, a burning chamber provided with pre-combustion chamber, a product outlet, a fine particle recovery section and pneumatic convevyors.

131629. C. Ethirajaiah. Ink capsules. Comprising bulb portion barrel portion a nozzle portion after filling into the tip being sealed.

131630. Chavala Ethirajaiah. Improvements in or relating to fountainpens. Comprising a barrel having internally threaded mouth, a neck and a threaded sleeve, the length of the neck being shortened in comparison with the conventional neck so that the joint between the said neck and the barrel is sufficiently close to the top of the nib.

131631. Yadab Engineering Works. Improved chair, stool and the like with height adjusting machanism. An improved chair, stool and the like with height adjusting mechanism comprising three or four legged assembly fixed to a central boss having internal threads, a hollow central pillar and a spindle coaxially mounted on the said central pillar and capable of being raised or lowered, the spindle provided with a longitudinally extending depression or recess, shallow at the top and being slightly deeper towards bottom.

131632. Void.

131633. Puthenveetil Varkey George. Circular elevator. Consisting of a ring that rotates about its centre line and having receptacles fixed on the interior face or the sides of the ring in such a way as to move materials in the vertical plane of the ring.

131634. Void.

131635. B.E. Doongaji. A new means for eliminating or minimising the splash effect of molten metal during casting of steel ingots. Comprising atleast one pad formed by closely wound spirals made of pleated ropes woven from fibrous strands of steel wool, the pad having shape and size adapted to cover the entire bottom area of the ingot mould.

June 8

131636. Council of Scientific and Industrial Research. Improvements in or relating to the electrochemical marketing on silver. Passing an electric current for 2-20 seconds with the voltage 10 to 25 V through an electrode holder containing KNO_3 K_2 Cr C_7 polyvinyl alcohol and NH_3 with the object to be marked as the anode.

131637. Council of Scientific and Industrial Research. A process for production of sponge iron. Characterised in that the temperature of the hot blast reducing gases are so adjusted by the temperature of the hot blast and by mixing oxygen and steam in the hot blast so as to obtain a hot reducing gas in the temperature range of 500°C to 1300°C in separate combustion chambers located in so close proximity to the shaft furnace.

131638. Void.

131639. Void.

131640. Void.

131641. Fiverel. Societe Cicil D'Etudes Et De Recherches. Improvements in or relating to tyres including cables glass cords. (December 23, 1970). A tyre having a carcass including cords of glass filaments enclosed in a sheath of elastomeric material, the filaments being twisted together to form stands and the stands being twisted together for form the cord.

131642. Void.

131643. Joseph Lucas (Industries) Limited. Electrical systems for load vehicles. (June 17, 1970). Generator output is applied between first positive terminal and first negative terminal, and the loads of the vehicle which are susceptible to damage being connected between second positive terminal and second negative terminal.

131644. Farbwerke Hoechst Aktiengesellschaft Vormals Meister Lucius & Bruning. Process for the manufacture of level fast dyeings on natural or synthetic fibrous materials containing nitrogen. Comprising treating the material with 1 : 2 chromium or 1 : 2 cobalt complex mono azo dyestuffs which are free from and water solubilizing groups but which contain at least one hydrophillic group—SO_2-CH_2-CH_2-OH at a pH of from 4 to 8.

131645. The Udylite Corporation. A battery employing halogen hydrate as an oxidant. A battery comprising (1) an electrode compartment with at least one positive electrode and negative electrode therein (2) a storage compartment with a halogen hydrate therein (3) an aqueous metal halide electrolyte and (4) a communicative means between said electrode compartment and said storage compartment.

131646. Wiggins Teape Research and Development Limited. A method of manufacturing non-woven fibrous material and product obtained thereby. Including the steps of producing a fibrous stock comprising a foamed aqueous suspension of fibres, and producing a sheet of non-woven fibrous material from the fibrous stock, characterised by the steps of adding to the fibrous stock either before or after foaming thereof, beads of synthetic polymer material which will swell and soften under alkaline conditions, and rendering the fibrous stock sufficiently alkaline, either before or after addition of the beads of polymer material, to effect swelling and softening of the beads of synthetic polymer material.

131647. Bunker Ramo Corporation. Non-explosive electrically initiated heat-ignitable actuator. Comprising a coollapsible piston assembly disposed in a housing and initiating means for igniting at least one heat-ignitable shear pin preventing collapse of the assembly.

131648. Cabot Corporation. Process for the preparation of rubber composition. Comprises mixing a rubber with carbon black product having special properties and volucanizing the mixture.

131649. Orient Trading Company. Means for jointing pipes. An annular gasket of rubber with an axial dimension greater than the radial dimension of any part thereof, the inner diameter of the gasket tapers from a maximum on one end to a minimum on the other end, the maximum diameter being at the end that is in contact with the face of the other pipe member, and wherein both axial parts thereof are constructed of resilient rubber, one part being made of less readily deformable rubber and this harder part terminating in the shape of a flange and on being attached to the outer member of the pipe the flange face remaining outside the joint.

131650. Orient Trading Company. Improvements in or relating to pipe-joints. Radially thick part of the gasket is made of soft resilient rubber and the two axial ends are reinforced by insertion of harder sections into the soft resilient part.

131651. Void.

June 9

131652. Void.

131653. Bayer Aktiengesellschaft, formerly known as Farbenfabriken Bayer Aktiengesellschaft. Process for the production of new aminophenylamidines. An aniline derivative is reached with a carboxylic acid amide or thioamide.

131654. Bayer Aktiengesellschaft, formerly known as Fabenfabriken Bayer Aktiengesellschaft. Process for the production of new aminophenyl-cycloamidines. Comprises reacting an aniline derivative with corresponding lactam or thiolactam or with a salt or reactive derivative thereof.

131655. Bayer Aktiengesellschaft formerly known as Fabenfabriken Bayer Aktiengeselschaft. Process for the production of new aminophenylamidines, and cycloamidines. Comprises reducing by known method corresponding nitrophenyl-amidine or—cycloamidine.

131656. Void.

131657. Void.

131658. Void.

131659. Joseph Lucas (Australia) Proprietary Limited. Improvements in starter motors for motor cars. (June 17, 1970). Wherein the opposed detachable end closure of the motor casing are fastened by a plurality of tying straps with an inwardly extending reaction connection at one end and a tensioning connection at the other end.

131660. Void.

131661. Void.

131662. Void.

131663. Bristol-Mayers Company. A process for the preparation of 7-acylamido-3-methylceph-3-em-4-carboxylic acids. Comprises heating penicillanic acid sulfoxide in a weakly basic solvent in the presence of a catalytic amount of a strong acid and a nitrogen base or a strong acid alone, said base having a pkb of not less than 4.

131664. Bristol-Myers Company. Process for the preparation of antibacterial agents. Comprises oxidizing a fermentation produced penicillin or a salt thereof, heating penicillin sulfoxide in a weakly basic solvent in presence of strong acid and a nitrogen base, reacting cephalosporanic acid compound with a silyl compound reacting silyl ester with excess of halogenating agent, reacting with said imino halide an alcohol, reacting imino ether with water or an aliphatic alcohol, acylating with an acylating derivative of an acid.

131665. International Business Machines Corporation. Printers with bi-directional spacing mechanisms. Letter feeding means for reciprocating the driving member away from and back to a home position and coupling means for coupling the carriage to the driving member during motion of the driving member away from the home position and coupling it to the holding member during motion of the driving member towards the home position.

131666. Keelavite Hydraulics Limited. Improvements in or relating to fluid tight annular seals. Comprises an annular leakage path to be sealed, an abutment wall, an O-ring and a deformable support ring between the O-ring and the abutment wall.

131667. Void.

131668. Void.

131669. G. R. Mansukhani and I. T. Mirchandani. An improved image forming machine, such as a type-writer. (June 12, 1970). Having a margin indicator device comprising feeler or senser means and signal means activated by the filler means for emitting a signal where edge of image receiving layer reaches a predetermined position in its passage.

131670. Sumitomo Chemical Company. Process for dyeing fibrous ma'erials with cationic dyes. Comprises immersing fibres of polyacrylonitrile, polyamide and polyesters in a dye bath containing corresponding thiazolium azo cationic dyestuff.

131671. Montecatini Edison S.p.A. Process for the vulcanization of vulcanizable compositions. Characterized in that poly-(dichloro alkenamers) are heated at 120—220°C for 1—120 minutes in presence of a compositions made up of a condensate of ammonia, HCHO and ethylchloride and (b) a bivalent metal oxide from the group Mg^0, Zn^0, and Pb^0.

131672. K. K. Varughesse. A torsion bar control system for tilting chairs. Comprising a base member attachable to a chair body said base member being swivebably and tiltably supportable on a pedestal atorsion bar housed within the base member and provided at one end with means for restraining motion of that end and at the other end with means for twisting the o'her end when the base member is tilted.

131673. Void.

131674. Void.

131675. Kadaviparambil Kacko Xavier. Improvements in or relating to a high powered air rifle. Comprising a chamber ring loaded with pellets and accommodated between a face plate and an air chamber plate such that on rotating the ring pellets come in line with the barrel bore.

131676. Void.

131677. Compret N. V. A physical exerciser. (June 11, 1970). Comprising first and second elongated members, mounting means first and second handles on the members at the ends, and resilient means acting between members to resist movement of the handles towards one another.

131678. Compret N. V. A physical exerciser. (October 7, 1970). Comprising first tubular member having a bush at one end, a second elongated member having a flange at one end and received in an aperture in bush, first and second handles carried by members on the other ends, and a resilient means opposing relative movement between flange and first handle.

131679. Bata Shoe Financial Corporation of Canada Limited. An apparatus for matching and feeding stitchable components of a shoe quarter to a sewing machine. (June 12, 1970). Comprises stacking means for stitchable components, separating devices, a monitor system for making a colour comparison of said components, gauge means, conveyor means, transferring means and reject means.

131680. Societe Des Accumulateurs Fixes Et De Traction. Improvements in or relating to a battery of flat cells and method of making same. [Divided out of No. 126333; anti dated to April 23, 1970]. Having negative zinc electrodes coated on one face with conductive varnish and bearing on the other face manganese dioxide mass, a separator between the said electrode and mass, and an electrolyte comprising zinc chloride solution to which are added reticulated starches.

131681. Societe Anonyme Tubest. Process and device for producing thin walled or extra-thin walled smooth tubes by welding. Characterised in that the tube blank thus conformated passes continuously, in front of the stationary welding torch between external guiding members and an internal guiding member which is simultaneously used to introduce and distribute the protective gas below the weld line.

131682. Alps Electric Co., Ltd. Movable contact member for switches. Consisting of an elastic body which is divided to provide of plurality of separate arm portions by slits, the arms portions having different lengths with round free end points.

131683. N. V. Philips Gloeilampenfabrieken. Semiconductor device. Comprising circuits elements integrated in the surface layer of a semi conductor body, the said circuit elements are connected to the resistor having a number of semiconductor zones determining the active posts of the element among which, the insulation zone being cap shaped and having a bottom portion which extends at the boundary of the surface layer.

131684. Imperial Chemical Industries Limited. Non-woven continuous filament materials and process for making them. (June 11, 1970). Comprises an intimate blend of continuous filaments containing 11 to 90% of bicomponent filaments and 89 to 10% homofilaments, the said filament blend being founded together at a multiplicity of bicomponent filament contact points to yield a material having an average bond strength of 0.5 g.

131685. Council of Scientific and Industrial Research. An improved proved method relating to the extraction of nickle and cobalt values from oxidised (lateritic) ores. Process for the extraction of nickel and cobalt values from their oxidised ores which consists of reacting the ore in contact with ammonium chloride at a temperature ranging from 190° to 500°C followed by leaching of soluble chlorides of nickel and cobalt.

131686. Council of Scientific and Industrial Research. A process for the preparation of a french polish from "chandrus" without the use of any methylated spirit. "Chandrus" dissolved in a 1:1 mixture of commercial benzene and n-hexane is refluxed over a water bath and the refluxed solution is further diluted with 5-8 volumes of n-hexane to give a french polish.

131687. Prodyot Banerjee and the Registrar of Indian Institute of Technology. Process for preparation of spheroidal or nodular graphite cast iron by inoculation with zinc. Wherein ordinary grev cast iron or iron-carbon alloys when inoculated in the molten state by virgin zinc metal or by zinc introduced as in carrier alloy, along with aluminium and bismuth obtain graphite in spheroidal or nodular from after solidification in sand or other refractory moulds.

131688 Prodyot Banerjee and the Registrar Indian Institute of Technology. Process for preparation of spheroidal or nodular graphite Cast Iron by inoculation with Alpha Graphite. [Addition to No. 130754]. Wherein alloys containing 3-4.5 per cent carbon 1.5 to 3.5 per cent silicon, upto 0.8 per cent manganese and upto 0.1 per cent of each of phosphorus and sulphur, when melted and alloyed with 0.5 per cent to 2.5 per cent aluminium and when simultaneously inoculated with alpha graphite and bismuth, obtain graphite carbon in the spheroidal form after solidification.

131689. Prodyot Banerjee and the Registrar of Indian Institute of Technology. Rapid Malleableization of white cast irons by inoculation with alpha graphite. Characterized in that the melt of the said iron is inoculated with alpha graphite.

131690. Void.

131691. Dunlop Holdings Limited. Improvements in or relating to tyre and wheel assemblies. (June 20, 1970). A pneumatic tyre and wheel assembly comprising an enclosing means for lubricating material for the interior surface of the tyre, said lubricating material being releasable from the enclosing means into the inflation chamber defined by the tyre and wheel upon substantially loss of inflation pressure or deflation of the tyre.

131692. Dunlop Holdings Limited. Improvements in or relating to pneumatic tyres. (June 20, 1970). Having in the outer region of each of the sidewalls an annular layer of soft rubber having a hardness of 45 B.S.I. or softer applied to the rubber of the sidewall.

131693. Dunlop Holdings Limited. Improvements in or ralating to pneumatic tyres. (June 20, 1970). Comprises a reinforced carcass having beads and sidewalls and a tread portion an annular layer of rubber in addition to the rubber of the sidewall.

131694. Void.

131695. Void.

131696. Norton Company. Coated abrasive materials. Comprises a flexible backing member, a multiplicity of abrasive grains firmly affixed by an adhesive bond to a surface of the backing member and a layer over the adhesive bond.

131697. Sumitomo Chemical Company, Limited. Process for the preparation of aromatic ketocarboxylic acids. Reacting phthalic anhydride with a benzene derivative in the presence of anhydrous aluminium chloride

131698. Matsushita Electric Industrial Co., Ltd., Dry Cell. Characterized by a first insulating ring and second insulating ring mounted at a sealing portion on the cathode side, having on each upper. and lower side of its rim a protrusion and a second insulating ring mounted at a sealing portion on the anode side and having a protrusion on the lower side of its rim, the upper end of the outer jacket is folded on the protrusion formed on the upper side of rim of first ring, the lower end of the outer jacket is folded on the protrusion formed on the lower side of the rim of the second ring.

131699. Void.

131700. Void.

131701. G. J. v. w. Burgt, Johannes't Hart and J. Schrier. Vehicle bed for carrying a lying person. Characterized in that the platform is fixed in horizontal direction relative to the vehicle by means of retaining means acting on the platform at the point of the centre of gravity of platform.

131702. U. M. N. Suthan. Suit-case-cum-chair and bed. Having three flat fold hingedly fitted on the top of the cover, the box being fitted at the bottom with four legs and cross-pieces, all of which are hingedly fitted so that they can be folded flat with the bottom of the box and can be locked at that position by means of two latches.

131703. Void.

131704. Void.

131705. F. L. Muller. A method of preserving raw or partly heat-treated food stuffs and a house-hold package for carrying out the same. Comprises mixing the food stuff with thickening agents having negatively charged molecules, if desired with other fermentation inhibiting materials and storing the food stuff at a temperature range between-25°C and 25°C.

131706. Raymond Stanley Kotzur. Building module and building structures. (June 18, 1970). Including a sheet metal body portion having a pair of opposite end walls, a pair of opposite side walls, an open top and an open bottom, and an upstanding neck portion at the top end for telescopic engagement with bottom of an upper block and one or more inter-block retaining members adapted to engage recesses.

131707. Christopher Edward Devies. A method for constructing a container for fluids to be heated by solar energy and a container so produced. Joining a pair of sheets to make a fluid tight seal along their common peripheries; joining the sheets together at predetermined points within their peripheries, forming an inlet between the sheets and introducing through the inlet a fluid under pressure to distend the sheets and exhausting the fluid after distention is completed.

131708. Sebastian Messerschmidt. Improvements in or relating to balls working devices. Comprising a rotary and a stationary plate having a gap between them in which the balls are worked and with aperture in the stationary plate for insertion and removal of the balls and means for urging the plates together whereby the force per unit area acting on the balls increases to a maximum from ball entry and then decreases unit ball discharge.

131709. Void.

131710. Void.

131711. Void.

131712. Void.

131713. Void.

131714. Nikex Nehezipari Kulkareskedelmi Vallalat. Equipment for lifting secondary liquids with the energy of primary liquids. Comprises upper intake basin and lower recipient basin for primary liquid, connected by a down pipe and lower intake basin and upper recipient basin, for secondary liquid, connected by riser pipe, the two pipes being connected together by a system of vessels which have suitable valve like devices at the points of their connection with the tubes.

131715. Litton Industries, Inc. Business machines. Including a key board organized into series of individually operable keys wherein each key of series can be actuated independently from the other keys of that series, a display arrangement and transfer elements for respective ones of series, these elements in the form of flexible element having perforations engage at least one gear of the machine for conveying information for conveying information from a key of the associated series to a display unit.

131716. Void.

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131717. Council of Scientific and Industrial Research. A process for the extraction of quercetin and catechins from liquid cutch. Comprises shaking liquid cutch for 24 hour with ether, extract shaken again for 4 days with ether, extract warmed, residue warmed with acid H_2O and crystallized.

131718. Council of Scientific and Industrial Research. An apparatus for the measurement of porosity of rocks and other porous materials. U shaped unit comprising a funnel top, a pyrex stopper, a sample chamber and a graduated capillary tube connected in that order from top to bottom wherein a polythene tube is connected to the graduated capillary tube and a mercury reservoir is connected to the polythene tube whereby the difference in heights of the mercury column in the capillary tube with and without a sample in the sample chamber is calibrated to give the grain volume and percentage porosity of the sample.

131719. Void.

131720. Kamyr Aktiebolag. Screw feeder in a continuous cellulose digester. Screw feeder for charging fibre material into the top of a continuous cellulose digester consisting a driven vertical tubular centre body provided with an exterior helical flange and arranged in a surrounding casing characterised in that the lower end of the tubular centre body is open in order to allow passage of fibre material also through the interior of the centre body.

131721. Void.

131722. Void.

131723. The British Oxygen Company Limited. Enclosed transport container. (June 24, 1970). Fitted with a liquefied gas evaporator for supplying evaporated gas thereto, in which the evaporator has a shell constructed of gasimpermeable material, a layer of insulating material, an inlet for liquefied gas and a vapour outlet leading directly to the enclosed space, wherein the location and dimensions of the vapour outlet permit the escape of dense, non-turbulent evaporated gas.

131724. Ciba-Geigy AG. Process for the manufacture of 2, 5-diacylamino-1, 4-benzoquinones. By direct acylation of 2, 5-diamino-1, 4-benzoquinones with carboxylic acid halides in the presence of a friedel crafts catalyst.

131725. Imnico AG. and Prof. Dr. K. H. Imhausen. A polymerisation process and a polymerisation reactor for carrying out this process. Polymerising thylene at 300 atoms pressure and at 400°C in presence of oxygen or one or more radical forming initiators and in presence of 20 mol % of a moderator.

131726. Director, Indian Institute of Science. Design of grit chamber shapes to achieve desired velocity head relations using known shapes of outlet weirs. A chamber, such as a gritchamber, adapted to be used for the settling of particles contained in an effluent comprising a chamber having an inlet end, an outlet being in the form of a weir or notch.

131727. Leningradsky Dvazhdy Ordena Lenina Metallichesky Zavod Imeni XXII Seizda Kpss. Adjustable blade vertical hydraulic turbine. Comprising a rotor assembly, upper casing structure, a fairing structure functionally associated with said upper structure and adapted to change the direction of stream of water from redial to axial.

131728. Prakash Purushottam Gupta. A mechanism for reducing the clearance volume at the end of exhaust-stroke of four stroke I.C. Engine. Which mechanism comprises an eccentric crank-pin which rotates about its own axis at half the speed of the crankshaft by a planet gear fixed to the pin and meshing with a sun gear fixed to the frame of the engine.

131729. Altalanos Geptervezo Iroda. Equipment for automatic filling of gas cartridges. Characterized in that it consists of one or more filing head units for the gas conduction and plug upsetting as well as of feeders guiding orderly, in the required position, the cartridges and sealing plugs for clamping the hallow cartidges there is a device led in two directions into two final positions.

131730. Void.

131731. Aktiebolaget Svenska Flaktfabriken. Device for maintenance of a distfree bacteriafree zone in a room. Having a number of air curtains surrounding the zone under simultaneous supply of ventilating air to the curtained-off zone.

131732. Aktiebolaget Svenska Flaktfabriken. Distributing device in plants for the maintenance of a dustfree, bacteriafree zone in a room. Having a number of air curtains surrounding the zone under simultaneous supply of ventilating air to the room within the curtained off zone.

131733. Shree Mukesh Textile Mills Ltd. Unloading device. Comprises a horizontally disposed frame, a support for adjustably suspend the said frame, an endless rotatable member maintained or said frame and provided with a plurality of upright members rotatable therewith and drive means for operating said endless rotatable member.

131734. Aziende Colori Nazionali Affini Acna S.p.A. Process for preparing azo-dyes soluble in organic solvents 2-chloro-4-nitroaniline is diazotized and coupled with N-ethyl-N-betaoxyethyl-m- toluidine and the resulting monoazo-compound is reacted with vinylisobutyleneether.

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131735. Void.

131736. Void.

131737. Dunlop Holdings Limited. Improvements in or relating to tyre and wheel assemblies. (June 20, 1970). Comprising of a tyre, a wheel on which the tyre is mounted and a perforatable matter located in the tyre of wheel.

131738. Dunlop Holdings Limited. Improvements in or relating to tyre and wheel assemblies. (June 20. 1970). Having a rim with a pair of spaced apart seats for the reception of tyre beads.

131739. Dunlop Holdings Limited. Improvements in or relating to pneumatic tyres. (June 20, 1970). Comprising a tread, sidewall and bead portions having in at least one localised region of the internal surface of the tyre. recessed portions in which a liquid of solid lubricant material can be held.

131740. Dunlop Holdings Limited. Improvements in or relating to tyre and wheel assemblies. (June 20. 1970). Having a single inflation chamber comprising a wheel having a wheel rim with a pair of opposed annular flanges. a pneumatic tyre having a tread portion whose width is greater than the width of the wheel rim measured between the flanges. and a flowable liquid lubricant which. when the assembly is used with the tyre in a deflated condition. will facilitate relative movement of contacting surfaces of the tyre.

131741. Dunlop Holdings Limited. Improvements in or relating to tyre and wheel assemblies. (June 20, 1970). Comprising a wheel, a pneumatic tyre greater than the width of the wheel rim and a coating of a lubricating material disposed on an interior surface of the tyre.

131742. The Singer Company (UK) Limited. Improvements relating to tufting machines. Comprising riged elongated member engageable with a push-rod and a mounting bracket attached to the arm.

131743. Sperry Rand Corporation. Improved filing unit or cabinet. Characterised in that at least one pair of opposite side walls of each of the three members in provided for part or all of its length with inwardly extending flanges, said flanges including a plurality of predeterminedly spaced holes or aperatures adapted to coincide precisely with corresponding holes provided in the base plate of the member to be placed immediately thereabove.

131744. Dynamit Nobel Aktiengesellschaft. Safety laminate. Characterized in that each polyamide layer is made by applying a lacquer capable of forming a light stable film on one or both sides of an amorphous polyamide layer, allowing the lacquer to dry and pressing the layer between two flat parallel plates.

131745. Void.

131746. Void.

131747. Snam Progetti S.p.A. Process for the production of composite yarns, apparatus suitable for realising the same and yarns obtainable thereby. Comprises drawing and separating the yarns into filaments using electrical device, further separating the filaments by contacting with air stream, subjecting separated filaments to a thermal shock at 200°C to 600°C, maintaining thermally shocked filaments at decreasing temperature to develop further crimping and collecting the yarn.

131748. Sony Corporation. Colour television decoding system for a receiver. Delay means for delaying chrominance components a predetermined length of time, switching means for transmitting segments of chrominance components for selected intervals of time, first and second demodulator means to demodulate the continuous selected chrominance signal, first and second generator means to generate first and second signals, control means connected to generator means, means connecting first generator means to first demodulator means to derive first chrominance component and means connecting second generator means to second demodulator means to derive a demodulated signal.

131749. J. H. Fenner & Co. Limited. A rubber composion and a fibre contacing element made therefrom. A rubber composition comprising a rubber and chlorosulphonated polyethylene.

131750. Pilkington Brothers Limited. Improvements in or relating to coloured glasses. Consists of a base SiO_2-CaO-Na_2O glass characterized by when 6mm thick or more from 0.2-0.5 per cent Fe_2O_3. 0.005-0.01 per cent Co_3J_1 and 0.002-0.2 per cent Se, the quantities coordinated to produce a neutral grey glass with excitation purity less than 6 per cent and dominant wave length 0.45-5u.

131751. Ciba-Geigy AG. Process for the manufacture of anthraquinone derivatives. Oxidising α -amino-anthraquinone possessing a hydroxymethyl group in β -position.

131752. Void.

131753. Void.

131754. Miller Printing Machinery Co. Sheet gripping device. (June 17, 1970). Comprising a gripper assembly having a gripper member with a gripper finger abutting a gripper pad, a gripper shaft with gripper member non-rotatably secured thereto so that said gripper member rotates with said gripper shaft.

131755. Void.

131756. Norton Company. Grinding wheel and manufacture thereof. [Addition to No. 115225]. In which at least 95 per cent of the pore volume is filled with a cross-linked unsaturated polyester resin or with a thermoset copolymer of a liquid linear epoxy pre-polymer having two cross-linking sites or of a liquid branched epoxy prepolymer having at least three cross-linking sites which cross-linking sites are either hydroxyl of epoxy, cross-linked with an organic polyamine or an organic anhydride.

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131757. Void.

131758. Void.

131759. Void.

131760. Void.

131761. Dunlop Holdings Limited. Printers blankets. Which includes a compressible layer of cellular resilient material the cells of which have been produced by incorporation of hallow microspheres in the polymer.

131762. Dunlop Holdings Limited. Flexible hose pipes and method of manufacturing the same. (June 18, 1970). Flexible hose pipe comprising an inner lining layer, an outer covering layer and a reinforcement between them comprising at least one die drawn stranded wire helically wound relative to the longitudinal axis of the hose pipe.

131763. Dunlop Holdings Limited. Improvements in hose pipes. (June 18, 1970). Comprises an inner lining layer, an outer cover layer and a reinforcement between the inner and outer layer comprising a series of spaced coils each formed from a reinforcing tape each tape comprising a plurality of wires.

131764. International Business Machines Corporation. Composite material. Comprising a hast matrix having resident inclusions therein of polycrystalline material having a grain size such that dislocations cannot move beyond the boundary of a grain.

131765. Sumitomo Chemical Co., Ltd. Catalytic process for the preparation of acrolein by vapour phase oxidation of propylene. Contacting the propylene and oxygen with the catalyst composition corresponding to the formula.

$$Mo_{12} \quad Bu_1 \quad Fe_2 \quad Mg_{1\cdot5} \quad Co_{1\cdot5} \quad Ni_6$$
$$Tl_{0\cdot1} \quad Pi_{0.2\cdot2}$$

131766. Leningradsky Metallichesky Zavod imeni XXII Siezda KPSS. Improvements in or relating to a hydrodynamic centrifugal seal of a hydraulic turbine shaft. Comprises a body secured on turbine stator, a radial impeller on rotor shaft encased in a seal box provided on body, means for axial reciprocation and means for adjusting clearence between seal box and impeller blades.

131767. Janssen Pharmaceutica N. V. Process for the preparation of **1-[-ARYL-** -(R-oxy)-ethyl]-midazoles. Comprising reacting sodium salt of -(0-chlorophenyl)-imidazole-1-ethanol with hexylbromide.

131768. Institut Elektrosvarki Imeni E. O. Patona Akademii Nauk Ukrainskoi SSR. Electrode materials for electric-arc-welding. The core comprising fluorite concentrate, marble, ferromanganese, ferrosilicon and iron powder together with alumina and manganese ore.

131769. Kharkovsky Aviatsionny Institut. Vertical machine for working metals by impulses. Incorporating upper and lower rams brought into collision by an energy carrier into an impulse chamber, chambers enclosed in the upper ram to accommodate movable, pistons with their rods and communicating with the impulse chamber, the tools fastened an upper and lower rams, and means for stopping the rods without shock.

131770. Grain Processing Corporation. Process for decomposing calcium sulfate. In the process for reductively decomposing calcium sulphate by contacting particles thereof with a reducing gas at a temperature between 2150°F to 2280°F the improvement which consists in passing a mixture of air and a reducing gas through a bed of particulate calcium sulphate.

131771. Lovens Kemiske Fabrik Produktionsaktieselskab. A process for the preparation of sulfamylbenzoic acids. (June 18, 1970). Comprises reacting 3-amino-4-benzyl-5-sulfamylbenzoic acid with benzyl bromide to give 4-benzyl-3-benzylamino-5-sulfamylbenzoic acid.

131772. Sony Corporation. Color television decoding system for receivers. Comprising delay means for delaying chrominance components a predetermined length of time, first switching means for transmitting segment of said chrominance components, first and second demodulator means to demodulate continuous selected chrominance signal first and second generator means to generator first and second reference sub-carrier signals control means and second switching means.

131773. Scandia Packaging Machinery Company. Assembly for tucking and folding. Comprising tucker blade means first folder means forming wall structure, article having wrapper, tuck portion, overfold portion, a slot having configuration to receive overfold portion.

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131774. Council of Scientific and Industrial Research. Improvements in the process of making multiple prints of a document with an electrophotographic machine. Prior to charging the prints other than the first and the last one, with reverse polarity, connecting a resistance of the order of 0.1 to 100 MΩ in parallel with the high resistance (5 to 15 MΩ) through which is connected grid wires with photoconductive plate.

131775. Dr. Anil Ranjan Saha, Alok Kumar Das, Pranab Kumar Banarjee and Registrar, Jadavpur University, Calcutta-32. A microwave device for switching or mode filtering. Wherein the lamina being made by cutting out thin slices in the a-c or b-c plane from prolytic graphite material.

131776. Void.

131777. L' Air Liquid. Societe Annoyme Pour L' Etude Et l'Exploitation Des Procedes Oeorges Claude. Improved process for purifying hydrogen gas containing particularly co as impurity. Contacting impure hydrogen gas with a purifying mass which is mordenite charged with copper in ionic form and mordenite charged with copper in the Metallic form.

131778. Union Carbide Corporation. Arc torch cutting process. Comprising establishing an arc between an electrode and a work piece, maintaining a vertical flow of gas around the arc, introducing a vertical flow of liquid, directing the arc, gas flow and liquid flow through a nozzle and against work piece.

131779. Superba. Installation for continuous treatment with a hot fluid of products in the form of sheets, bands, strips, threads, filaments or products in powdered form. Characterised in that each intermediate compartment has heat insulated walls and is provided with heating elements.

131780. Uss Engineers and Consultants, Inc. Tundish and method of preheating same. Characterized by steps of turning the vessel about horizontal axis to preheat position, aligning the vessel with a burner and exhaust means cooperating with a cover, igniting the burner to heat the vessel to a temperature above the melting point of the metal remaining in the vessel, and allowing the molten metal to flow out from the vessel at its lowermost point.

131781. Tor-Isteg Steel Corporation. Reinforcement for reinforced-concrete structures. Characterized in that the reinforcement is divided into at least two separate standardized reinforcing sections etc.

131782. Universal Oil Products Company. Black oil conversion process initial operation procedure. Comprises circulating hydrogen through a reaction zone containing a desulphurisation catalyst at elevated temperature and pressure, introducing a hydrocarbon mixture containing sulphurous compounds, raising the temperature suitably and introducing the black oil while increasing the temperature further.

131783. S. P. Maini. Improvements in or relating to locking machinism for the fuel tank caps for automobiles and the like motor vehicles. Comprising a rotatable set of plurality of levers arranged in the form of outwardly disposed projections integrally formed at the base of a cylindrically shaped cup like cover, the said cover being pivotally fixed on a key operated central hub.

131784. Leningradsky Metallichesky Zavod Imeni XXII Siezda, Kpss. Regulating device for hydraulic turbines of the free-jet type. Characterised by that the jet dispersion member is shaped as a rod having a groove concentrically arranged on its surface adjacent to the pointed end portion of said needle.

131785. Tsentralnoe Konstruktorsko-Tekhnologicheskoe Bjuro Kolesnogo Proizvodstva. Wheel rim for pneumatic tyre. Providing a locking ring having an aligning band of a confex toroidal shape and the cross-section at the point of its gradual merging in the mounting surface has the shape of an arc of a circle.

131786. Leningradsky Metallichesky Zavod Imeni XXII Siezda Kpss. Improvements in or relating to a guide apparatus of a hydraulic machine. Provision is made for stops adapted to cooperate with grooves provided in the levers and serving to limit the turn of the blades when shearing the protective pin.

131787. Bekum Maschinenfabriken GmbH. A device for adjusting the annular die gap in an extruder head. Device for adjusting the annular die gap in an extruder gap comprising a die jacket, a die retaining ring at least one adjusting pin mounted insaid retaining ring, one end of the said pin bearing against said die jacket, the other end bearing against a slewable member.

131788. Vsesojuzny Nauchno-Issledovatelsky I Proektny Institut Aljuminievoi, Magnievoi I Elektrodnoi Promyshlennosti. Cathode casing of electrolyzer for producing aluminium. Providing a number of sockets in the cathode casing and equal number of vertical beams, the sockets accommodating pins and nuts with spherical support faces so as to provide for hinging the bottom with the vertical beams.

131789. Chief Scientist, Research & Development Organisation, Ministry of Defence. A mask for prevention of floating particles in the air from being inhaled. A mask for the prevention of floating particles in the air being inhaled comprising a laminated body made from laminations of non-woven fabrics, the laminations being bonded together by an adhesive, the laminated body being covered by one or more layers of a net, the said laminated body being then moulded to conform with the shape of the face.

131790. Void.

131791. Dr. Kattepur Subbarao Rangappa. Cryometer. Comprising a container to hold a liquid, a closure at the top of the container, and index tube having a plurality of calibrations thereon and held by and be in flow communication with the container.

131792. Dr. Kattepur Subbarao of Rangappa. Cinematographic projector. A cinematographic projector comprising two projecting lenses, one lens projecting the film in a direction opposite to the direction of projection of the other lens, means for causing the films of a single film roll to pass in front of said lenses successively and illumination means for causing the projection of the said film through said lenses characterized in that reversing means for effecting lateral reversion of the film after it passes through the first lens being provided after the first projection lens.

131793. Void.

131794. Sarabhai Electronic Research center. A receiver capable of receiving monochrome video signals and a plurality of audio signals. Characterised in that demodulator adapted to receive first audio signals from video detector, a sub carrier oscillator connected to demodulator, a mixer having on oscillator connected to demodulator and an intermediate frequency amplifier section.

131795. Marohar Industries. Improvements in or relating to gauge post. Consisting of a post of reinforced concrete on which is formed a recess to which is fitted a calibrated gauge plate.

131796. Dr. C. Otto & Comp. GMBH. Rich-gas fired regenerative coke oven. Regenerative coke oven having means for feeding air under pressure for decarbonising the feed ducts for the burners characterised in that the feed ducts for different burner groups are adapted to be supplied selectively with rich gas and compressed air, in that the compressed air is fed to each burner via stop cocks when the supply of rich gas to said group is interrupted during a half reversal period, and in that means are provided to open said stop cocks during a fraction of said half reversal period, whereby compressed air is fed to the ducts of said burner group for a period sufficient only to effect decarbonisation thereof.

131797. Void.

JUNE 19

131798. Void.

131799. Void.

131800. Bayer Aktiengesellschaft. Process and apparatus for the continuous production of extruded sections. The plasticised synthetic plastics material first flows around the annular passage surrounding the extruder nozzle then passes through an annular slot and thereafter deflects into a nozzle duct.

131801. Joseph Lucas (Industries) Limited. Heat treatment of steels. Comprising heating the steel between 750° to 805°C and then cooling the steel at a predetermined rate such that there is produced a treated steel comprising fine, highly disposed iron carbide grains in a ferrite matrix.

131802. Void.

131803. ICI Australia Limited. Ammonium nitrate-fuel oil compositions and process for their preparation. Comprising between 15 per cent and 90 per cent of the ammonium nitrate, present in the form of prills, have an oil porosity of more than 5 gm of oil per 100 gms of ammonium nitrate and those between 10 per cent and 85 per cent have an oil porosity of less than 2 gms of oil per 100 gms of ammonium nitrate.

131804. The Madras Chingleput District Palm Products Co-operative Federation Ltd. A process for the manufacture of aerated beverages from palm juice. Phosphoric acid is added to the lukewarm jucis containing a preservative to bring the pH to 7 the solution is heated to 100°C the solution filtered and the filterate processes.

131805. Void.

JUNE 21

131806. K. K. Xavier. Improvements in or relating to a high powered air rifle. Wherein the pellet feeding mechanism comprises a key for engaging a helical part of a keyway in the piston rod and for larning a ratchet wheel and the spin gear pinion through an anguiar range equal to two adjacent pellet holes in the chamber ring.

131807. E. R. Squibb & Sons, Inc. A process for preparing tetrahydronaphthy loxyaminopropanols and related compounds. Reacting 2, 3-epoxypropyl-6, 7-epoxy 5, 6, 7, 8-tetra hydro-1-naphthyl ether with an amine.

131808. Progil. Process for the manufacture of carbon disulphide with recovery of sulphur. Comprises reacting sulphur vapor with hydrocarbon to form gaseous mixture containing carbon disulphide and hydrogen sulphide, optionally condensing unconverted sulphur and/or a part of the carbon disulphide, contacting the gaseous mixture with sulphur dioxide in the presence of water at temperature not exceeding 100°C at normal pressure and maintaining the molar ratio of H_2S/SO_2 in the reaction mixture at least equal to 2/1, stirring the liquid containing sulphur and separating it from liquid medium.

131809. Progil. Process for the manufacture of carbon disulphide with recovery of sulphur. Gaseous mixture of carbon disulphide and hydrogen sulphide is reacted with sulphur dioxide in the presence of water and sulphur formed is recovered.

131810. Universal Oil Products Company. Solvent recovery process. Comprises extracting H_2O-soluble primary solvent contained in a raffinate stream of non-aromatic hydrocarbons produced by a primary aromatic extraction by passing the raffinate at a hole velocity greater than 0.6 m/sec there an extraction tower containing a plurality of stationary perforated decks together with an aqueous secondary solvent.

131811. Cherumanalil Korembeth Balakrishnan. Concrete-traveller for conveying a batch of concrete. Comprising top-open, skip, cradle carrier, hinged flap to cover strip to be shut by wire rope wound on drum discharge is effected by pawl and ratchet, trussed pipe rail of M. S. pipe and bar, V-shaped bar bearing plate.

131812. E. I. Du Pont De Nemours and Company. Process for preparing alkyl 2-benzimidazole-carbamates. A process for making alkyl 12-benzimidazole-carbamates comprising reacting an allophanic or thioallophanic acid alkyl ester.

131813. Void.

131814. Void.

131815. Void.

131816. Void.

131817. Industriewerk Schaefler Ohg. Three-roller high drafting system. Characterised in that the top feed roller is supported by an additional supporting roller.

131818. Bengal Coal Company Limited. Improvements in or relating to samplers for sampling coal, ores and other similar materials. Comprising primary drum carrying primary sieve means at its inlet end and secondary drum carrying secondary sieve means to which the material after primary sample reduction is fed, both drums being rotatable, and the sieve size of the primary sieve means is greater than that of the secondary sieve means.

131819. Void.

131820. Void.

131821. Sandoz Ltd. Process for antistatically finishing spun or moulded synthetic polymer materials. Incorporating spun or moulded synthetic polymers substituted polymeric compound.

131822. N. V. Philips' Gloeilampenfabrieken. Method of manufacturing a semiconductor device and semiconductor device obtained by using the method. [Addition to No. 129899]. Characterised in that a semiconductor body which is used as the starting material and of which during providing the epitaxial layer at least a surface region serves as the support of the opposite conductivity type is provided with a surface zone of the opposite conductivity type belonging to the support and adjoining the layer-shaped oxide pattern, and having such a high doping that the formation of channel which connect islands and which adjoin the insulating layer-shaped pattern is prevented.

JUNE 22

131823. Council of Scientific and Industrial Research. A simple heat exchanger for preheating the air in cupola. A device for heating air blast for cupola operation which comprises a number of compartments built around the existing chimney of a cupola but made conical in shape so that the flame of the hot effluent gases does not escape freely into the atmosphere and heats the truncated cone portion adequately, a number of large size washers are welded at the outer surface of the conical shell at suitable intervals, a baffle plate is welded on the shell which runs vertically through the washers, adjacent washers are then connected with circular shaped components which make a closed space of rectangular cross section between the conical shell and the circular shaped components, to the top-most and the lowest compartments are provided with wind pipes for introducing cold air and taking out hot air respectively, inverted conical covers are provided at the top of the chimney to keep out rain water entering into or over the exchanger, a suitable number of holes are made in the shell above the charging door to allow air for the combustion of hot effluent gases inside the conical shell whereby the baffle plate obstructs the movement of the air blast inside a compartment and reverses its direction to the opposite side whereby the air blast remains in contact with the hot surface of the conical shell for a longer period and picks up adequate heat from it.

131824. Void.

131825. Void.

131826. Dunlop Holdings Limited. Improvements in hose pipes. Comprising a reinforcing layer of polymeric material and an adjacent layer of polymeric material in which the polymeric material of reinforcing layer having high tenacity compared with that of the polymeric material of the adjacent layer.

131827. Void.

131828. Girling Limited. Improvements in or relating to lock actuators for vehicle wheel brakes. (June 24, 1970). Comprising extensible and contractable spindle, friction clutch associated therewith to lock strut against contraction in engaged condition effected by motor means.

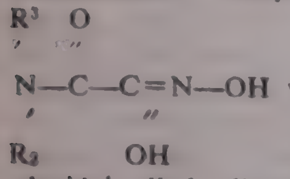
131829. Ugine Kuhlmann. Manufacture of concentrated nitric acid. Contacting the gas with mixture of nitrogen oxides, oxygen and steam with previously manufactured HNO to provide a solution of nitrozen oxides in HNO characterized in that solution is reacted with the air previously brought into contact with the solution of nitrozen oxides in the highly concentrated HNO_8.

131830. Allied Chemical Corporation. Apparatus for cooling and insulating electrical equipment. Comprising a gas light housing, means for suspending a unit of electrical equipment within said housing, means for passing an electric current through said unit, an inlet for gas at the bottom of the said housing, an outlet for gas at the top of the housing, an apertured plate disposed alone the gas inlet and means for passing a gas at fluidising velocity upwardly through said apertured plate.

131831. Schwarz Mining & Industrials Ltd. and Jack Reo Kennedy. Improvements in air stopping in underground mines. (July 7, 1970). Comprising support bar, a plurality of pairs of chanel-section panels, telescopically arranged one within the other the securing means comprising a wire clamp member having bifurcated limbs with hooked end portions.

131832. Void.

131833. E. I. du Pont de Nemours and Company. Process for the preparation of novel 1-carbamoyl-N-carbamoyloxy formimidates. Comprises reacting



$$\underset{R_2}{\overset{R^3}{N}}-\overset{O}{\overset{\|}{C}}-\underset{OH}{\underset{\|}{C}}=N-OH$$

with $R_4 (CH_3)x$ NCO(cl)x where R_1 is glycidyl, alkyl, alkenyl or cycloalkyl, R_2 and R_3 are H, alkyl, alkenyl, methoxy or cycloalkyl and R_4 is H, alkyl, allyl or propargyl and x is 0 or 1.

131834. Eli Lilly and Company. Process for preparation of tetrazolo (1, 5a) quinolins. Reacting an appropriate hydrozine compound with nitrous acid.

131835. Otto Alfred Becker. A composite structural unit for thermal and acoustic insulation. Characterized by an outer structural element, an inner structural element, an inner structural element wherein supporting in a pressure resistant manner.

131836. Void.

131837. Void.

131838. Raffinerie Tirlemontoise. Improvements relating to methods for extracting by means of a liquid, products which are part of solids and device for the working thereof. Comprising dividing the solids and the liquid into fractions with relative resulting lengthwise displacements along opposite directions, flowing the liquid fraction separated for the solid fraction over the new solid fraction.

131839. Bunker Ramo Corporation. Electrical connector contact. Comprising thin metal blade at one end, a terminal portion at the other end and a mounting portion between the ends to be held by a dielectric connector body, the terminal portion being of thin sheet metal folded to form a post with exposed sharpedges running longitudinally.

131840. Sony Corporation. A decading system for a colour television receiver. Comprising means for separating chrominance signal from colour television signal, delay means for delaying chrominance signal, circuit means for extracting the delayed chrominance signal and the non-delaying chrominance signal alternatively first and second demodulator means, first and second generating means for producing first and second reference signals, first supplying means for and second supplying means for supplying chrominance signals to first generating means and second generating means respectively.

JUNE 23

131841. Void.

131842. Ahmedabad Textile Industry's Research Association. Solution polymerisation of vinyl monomers. Process for solution polymerization of vinyl monomers characterized by the addition of a redox system comprising ascorbic acid and a persulphate as initiator system to the monomer solution to be polymerized. the polymerization being conducted in the presence or absence of known monomer stabilizer.

131843. Council of Scientific and Industrial Research. A coconut husk chipping machine. Comprises an electric motor to run a power-roller through a speed reducer and the power-roller supplies power to a roller assembly comprising right thoothed rollers arranged in four sets of rollers namely, input, gripping, pressing and output roller sets.

131844. F. Plasser. Improvements relating to mobile machine for detecting lateral deviations of rail of a railway track. Comprising three measuring wheel assemblies with individual pickup systems for relative displacement with undercarriage by hydraulic means, indicating and recording instrument, further pick up system.

131845. Void.

131846. Void.

131847. Sandoz Ltd. Process for the preparation of anthraquinone dyestuff compounds of low solubility in water. Characterised in condensation of compound like 1-amino-2-phenoxy-4-benzene sulphonamidoanthraquinone with Ho-R_1 R_2 R_1 being alkylene with 4 C-atoms and R_2 is alkoxy with 3—6 C-atoms and cycloalkoxy aryloxy and like.

131848. Void.

131849. Void.

131850. Electrospin Corporation. An open end spinning apparatus for textile fibres. Having a fibres advancing device and a fibre twisting device rotatably carried on a support housing spaced from said advancing device by a gap, said twisting device having a fibre inlet end and a yarn discharge and means establishing an electrostatic field across said gap.

131851. Gambin S.A. Universal milling spindle-carrying unit. Transmission is constituted solely by a train of cylindrical meshing gears the first of which is secured to a bevel gear in mesh with a bevel gear secured to the power shaft and the last of which is secured to the mating bevel gear in mesh with the bevel gear secured to the milling cutter carrying spindle.

131852. Imperial Chemical Industries Limited. Method of stripping of coated titanium electrodes for recoating. (June 26, 1970). Immersing electrode in molten bath of alkali metal hydroxide containing 0.1% by weight of alkali metal hydride and washing thereafter with water.

131853. Orsymonde. Process for the preparation of butyramidene derivatives. Comprises reacting naphthol with epichlorohydrine reacting reaction product successively with (a) Hcl gas, (b) KEN. (c) Condensing with ethanol and (d) with amine.

131854. Viobin Corporation. Process for separating fat from meat or fish. Comprising the steps of converting meat or fish into particles contacting them in a zone with a stream of gas at above. boiling temp. of the moisture for a period sufficient to evaporate the moisture extracting the said particles with a fat solvent.

131855. Cities Service Company. Process for manufacturing furnace carbon black and carbon black furnace turbocharge combination. Comprises passing aerosol from furnace into expander stage of turbocharger to drive it, comprising a stream of air in the compression stage of turbocharger and supplying resultant air to mix with fuel burned to produce hot conversion gases and collecting the carbon black from said aerosol after discharge from turbocharger.

131856. Void.

131857. Farbwerke Hoechst Aktiengesellschaft vormals Meister Lucius & Bruning. Process for the dyeing and printing of hydrophobic fibre materials. Comprises treating the goods in the presence of an acid donator at temperatures above 50°C with aqueous solutions of dyestuffs having the general formula wherein F represents the radical of an organic dyestuff water-insoluble per se, X represents an -O-. a-S- or -NR- bridge member (R=a hydrogen atom or an alkyl, aryl, acyl or alkyl or ary sulfonyl group) and Me is an alkali metal or ammonium ion.

131858 Farbwerke Hoechst Aktiengesellschaft vormals Meister Lucius and Bruning. Process for the preparation water-soluble dyestuffs. Characterized by reacting 1-amino-2-phenoxy-4-hydroxy-anthraquinone with chlorosulfanyl isocyanate and the product so obtained is treated with sodium hydroxide.

131859. Nippon Kokan Kabushiki Kaisha. Method and apparatus for operating a blast-furnace with an auxiliary reducing gas. Blowing auxiliary reducing gas into stack of blast-furnace through the wall above softening or melting zone indipendent of furnace blast, wherein the recycling and regenerating gas to form auxiliary gas is removed from near top of the furnace stack at a higher temperature and/or with higher content of reducing constituents and constituents to be regenerated than the gas to be recycled.

131860. Jg Glass Industries Pvt., Ltd. Improvement in vacuum flask. Wherein there is provided a lever carrying the stopper, said lever extending outside the casing and the lid and when actuated, adapted to move the stopper into and out of sealing engagement with the mouth of the container.

131861. Chief Scientist in the Research and Development Organisation. A composition for removing hard tenacious carbon deposits/soot. Comprising forming a complex by mixing acid of chromium and ammonium salt like ammonium chloride, ammonium sulphate or ammonium persulphate.

JUNE 24

131862. Void.

131863. Shashikant Dattatraya Supanekar and Dr. Erach Hormasji Daruwala. A process and a vat dye bath for reducing vat dyes. Wherein vat dyes in a vat dye liquor in a vat dye bath of a jiggar is reduced to the leuco form by reduction.

131964. Delhi Cloth and General Mills Co. Ltd. Improvements in or relating to the preparation of internally plasticized polyvinyl chloride. By polymerising vinyl chloride (monomer) with alkyl vinyl ether (comonomer) in presence of a free radical initiator consisting of 2, 2.-azo-bis-2, 4-dimethyl valeronitrile.

131865. Stamicarbon N.V Process for the preparation of powdery homo or copolymers of ethylene. Discharging the reaction mixture, expending it and quenching at least a portion of expanded reaction mixture with cold gasous medium of monomers to be polymerized.

131866. Void.

131867. Fisons Limited. Process for preparing dimethoate granules. (July 1, 1970). Coating base granules with a layer of a sticker comprising a hydrocarbon of viscosity at least 30 centistokes at 20° and then with a layer comprising O, O-dimethyl S-(N-methylcarbamoylmethyl) phosphorodithioate.

131868. C.A.V. Limited. Starting aids for internal combustion engines. (July 2. 1970). Comprising a body part partly closed by an end cap having an aperture therein.

131869. W. R. Grace and Co. Endless flexible laminate article particularly suitable for a rotary curing press blanket and method of making such an article. Comprising a base element including an elongate web and an elastomeric layer having formed therein grooves and being spliced together at its ends.

131870. M. L. B. Pooler. Manually operated spraying device. Comprises a cap for the container with a bellow at the top, a housing fitted inside said cap and having communication with said bellow, a single dip tube projecting downwardly and a dispensing pipe extending angularly from said bellow.

131871. E. I. du Pont de Nemours and Company. Ductise chromium containing ferritic alloys. Containing besides Fe 19—35 per cent C+N 0. 28 per cent, maximum Ti 2.2 per cent and Al 5 per cent.

131872. Institut Electrosvarki Imeni E. O. Patona Akademii Nauk Ukrainskoi SSR. An electrode for coating wear-resisting metal onto a surface of a workpiece. Characterised in that the core mixture includes powdered aluminium magnesium alloy with its alloy constituent taken preferably in equal weight ratios.

131873. The Chief Scientist in the Research and Development Organisation, Ministry of Defence. Inhibitor composition for prevention of staining of metals during grinding and finishing processes. An inhibitor composition for preventing staining of metals during grinding or finishing processes and for preventing corrosion comprising inorganic nitrite and inorganic benzoate, said composition being taken in an oil emulsion (1; 20 oil: water) in concentration of 2,000 ppm (0.2 per cent w/v).

131874. Franz Plasser. Improvements in or relating to mobile machine for determining different track parameters. Comprises feeler members, a pick-up for converting the movements of feeler members into electrical quantities, and an indicating and/or recording instrument, wherein the pick-up is secured to a member deformable by movements of feeler members.

131875. Franz Plasser. Improvements in or relating to mobile machine for determining the vertical position and condition of a railway track. Comprises feeler members, a pickup for converting the movements of these feeler members into a electrical quantities, an indicating and/or recording unit wherein the pickup is arranged between two toggle levers.

131876. Franz Plasser. Improvements in or relating to mobile machine for measuring the twist of a track. Comprises feeler members for determining level of rails, and a measuring arrangement linked to an indicating and/or recording unit wherein the measuring arrangement is an elastically deformable bar with strain gauges and arranged between two feeler members.

131877. Ivo Mavrovic. Urea synthesis. Where in there is employed a first aqueous urea solution containing ammonium carbamate and ammonia in an overall NH_3 to CO_2 molar ratio of from 3 to 15 molar proportions of NH_3 as ammonium carbamate and as dissolved NH_3 to one molar proportion of CO_2 as ammonium carbamate.

JUNE 26

131878. V. K. Pacheriwala. Audio visual alarm device for preventing theft or box or the like. Comprises an audio circuit consisting of audio means with a main switch and one automatic out to 'on' switch, visual circuit consisting of a flash circuit and a main switch.

131879. Void.

131880. Void.

131881. Girling Limited. A vehicle brake actuator. (July 3, 1970). Comprises a housing having at least one axial projection extending from the housing outside the outer boundary of the sealing and means engaging in said at least one axial projection to press the flange aganist the seating.

131882. Worthington Foods, Inc. Apparatus for washing and drying a tow of fibres. Comprises conveyor means, a plurality of treating means, gas applying means and means for removing liquid.

131883. Girling Limited. Improvements in or relating to railway vehicle disc brakes. By comprising a disc brake structure mounted on one side of one of the side members and retraining means acting on that side member to restrain against tilting.

131884. Void.

131885. Girling Limited. Improvements in or relating to lining wear indicators. (June 26, 1970). Comprising a pair of separable electric contacts resiliently biased together.

131886. Eurocom Establishment. A device for playing teaching and learning game. (June 11, 1971). Having plug-in-blocks adapted to be secured on a base plate and bear symbols such as letters, figures, words, images or the like. substantially horizontal and vertical rings.

131887. T. V. Kamat. A top. By comprising a rod carrying a weighted body and having means for securing one end of a rope, a knob on either end of the said rod and

131888. Void.

JUNE 28

131889. Societe De Conditionnement En Aluminium Scal GP. A machine for tapering flexible metal tubes. [Addition to No. 125755]. Characterised in that the cylindrical tube, followed by a widening frustoconical part whose length is at least equal to the difference between the length of the cylindrical part of the mandrel and the length of the tube.

131890. The Bendix Corporation. A servo-type brake. Comprises a brake drum and a pair of shoes, the primary shoes has a friction liner of organic material and the secondary shoe has a friction linear of organic material and in a first area of semi-metallic friction material in a second area.

131891. Clayton Dewandre Company Limited. Air pressure operated braking systems. Comprises a housing, piston means in said housing, an inlet port connected to the tractor reservoir, valve means, a further connection from said inlet port to the trailer emergency line, and a spring-loaded valve operable to close off said inlet port.

131892. Void.

131893. Merlin Gerin. Three phase electric switching system having rectifier shunted contacts. Static rectifiers of at least one of poles are oriented in the direction opposite that of the other pole so as to reduce the maximum voltage applied to said static rectifiers in case of a defect.

131894. Haldor Frederik Axel Topsoe. Endothermic catalytic processes and apparatus therefor. (August 10, 1970). A furnace containing vertically disposed reactor tubes are made of a compound material consisting outwardly of a corrosion resistant alloy and inwardly of a pressure-resistant alloy.

131895. Void.

131896. Texaco Development Corporation. A partial oxidation process for producing synthesis gas. Comprises (1) mixing particulate solid carboniferous fuel a liquid vehicle to form a feed slurry; (2) atomizing the feed slurry from (1) in the refractory lined reaction zone of a synthesis gas generator by containing a low velocity stream of slurry with a high velocity stream of oxidizing gas to form atomized dispersion (3) reacting the atomazed dispersion of (2) in reaction zone at synthesis gas generating conditions to produce a product gas stream.

131897. Vedecko-Vyzkumny Uhelny Ustav. Equipment for the continuous automatic seismo-acoustic measurements of the dynamic moise variations within the rock mass. Characterised in that on the source of the input pulse generator there are interconnected in series in two measuring channels the intrinsically safe barrier steps, attenuators, amplifiers, low frequency filters, barrier emplifiers, control circuits for the selection of the amplitude level detectors, schmitt sweep circuits tapped regulators, of the time constant connected in parallel and further the counters.

131898. Testa, Narodni Podnik, Circuit system of radar set. Wherein the outputs of the angle marker generator and the range marker generator are connected to the circuits of a first indicator and a second indicator by means of a first gating pulse switching circuit, a second gating pulse switching circuit and a first blanking pulse switching circuit and a second blanking pulse switching circuit to whose controlling inputs are connected two control voltage sources of which is provided with two pole pieces through which segments mounted on the aerial shaft can pass during the scanning of the radar aerial.

JUNE 29

131899. Void.

131900. Council of Scientific and Industrial Research. Improvements in or relating to heat treatment of etched aluminium and its alloy for use as electrodes in aluminium electrolytic capacitors. Heating of the etched foil is done at 400 to 600°C in the presence of air or other gases for a period ranging from half an hour to 2½ hours whereby etch ratio of the etched foil is increased by 35 to 50 per cent.

131901. Void.

131902. Void.

131903. Southwire Company. Process for preparing an aluminium base alloy conductor. Preparing aluminium base alloy by alloying 0.35 to 4.00 per cent by weight of cobalt with 93.5 to 99.65 per cent by weight of aluminium and from 0.001 to 2.5 per cent by weight of at least one additonal alloying element selected from group of metals etc. Magnesium, Iron, Nickel, Copper etc., casting the alloy in a moving mold and hot rolling the cast alloy.

131904. Joseph Lucas (Industries) Limited. Anchorage devices. (July 23, 1970). Includes a helically wound portion within which the drive member is received and a pair of outwardly extending limbs integral with opposite ends respectively of the helically wound portion through which the device can be secured to the component.

131905. Royalty Designs of Florida, Inc. Resilient polyvinyl chloride sheet material and process for forming the same. A quivery resilient PVC sheet material has plasticizer-to-resin ratio of the order of substantially 12:1 ± 35 per cent.

131906. Kentredder Limited. A method and machine for butting tyre treads and the like. A machine comprising two discs provided with cutting teeth in which the discs are mounted to revolve about parallel axes and are arranged with their teeth in a common plane, means for imparting drive to the discs so that they rotate in the same direction whereby the cutting action of the teeth in contact with the tyre will be in the opposite directions.

131907. Council of Scientific and Industrial Research. Improvements in the device for charging electrostatically the photoconductive plates for electrophotographic machines. Comprising a charging electrode, a corona collecting electrode placed below the charging electrode on which photo conductive plate rests, a high D. C. source in the range of 1,000 to 30,000 volts, connected to the charging electrode and the corona collecting electrode, a grid, and a second D.C. source in the range of 100 to 5,000 volts connected to the grid and the corona collecting.

131908. Void.

131909. Council of Scientific and Industrial Research. Improvements in or relating to the electrolytic preparation of lithium hydroxide. Characterised in that the electrolytic cell is provided with cylindrical lead dioxide anode at the centre separated from a nickel plated perforated steel cathode by asbestos diaphragm.

etching a V-shaped groove in the surface of the body, conductor wafer. Comprising the steps of anisotropically etching a V-shaped groove in the surface of the body stressing the body of break along the groove.

131911. Georgia Pacific Corporation. Drilling Composition. Comprises a suspensions of a clay material in an aqueous medium containing a water soluble chromium salt of sulfonated, phenolated lignosulfonate.

131912. Gebruder Giulini GMBH. Process for manufacture of bricks from red-mud. The red-mud is dried to a residual moisture content of between 15 to 35 per cent by weight, before mixing with clay.

131913. Metallgesellschaft A. G. Process of producing aluminum fluoride. Hydrogen fluoride is supplied in liquid form directly to the fluidized bed above the grate of the fluidized bed reactor but below the inlet for recycled solids.

131914. Veb Chemieanlagenbau Leipzig. Process and equipment for the manufacture of polyester. Improved process for the manufacture of polyester by esterification of terephthalic acid with glycol and subsequent condensation and charging of matting medium characterized in that the said matting medium is sprayed on to the flowing film of the condensed product and the product is subjected to homogeneous mixing.

131915. Manohar Industries. A diversion box. Has fom sides, each side comprising a frame consisting of two spaced vertical columns and a bottom member, a sliding shutter fitting in the opening between the columns in each side of the box, means to control the shutter opening, means for locking the shutter in desired position, outwardly extending walls each connectable to and forming obtuse angle with one of the columns and spaced openings near the base of each side wall for reinforcement wires for a base to be cast passing there through.

131916. Void.

131917. Instituto Chemioterapico Italiano S. p. A. Method of separating 2-amino-1-butanol isomers. Reacting d-1-2amino- 1-butanol with an aqueous solution of L(+) tartaric acid crystallising and separating the acid L(+) tartarate of 4-2-amino-1-butanol, evaporating water from the resulting liquor and dissolving the residue in methanol to recover the acid L(+) tartrate of d-2-amino-1-butanol.

131918. Instituto Chemioterapico Italiano S. p. A. Process for preparing (+)2, 2′-(ethylenediimino)-di-1-butanol dihydrochloride. Reacting 1.2 dichloroethane with (+) 2-amino-1-butanol in a solvent and precipitating the dihydrochloride by means of Hcl wherein (+) 2-amino-1- butanol itself is used as the solvent.

131919. Mobil Oil Corporation. Method of deodorizing organothiophosphorus compounds. A method of dedorizing a compound of the structure shown in Fig. I of the accompanying drawings, whereinn R is H, alkyl, substituted alkyl, phenyl, alkyl-substituted phenyl, halo-substituted phenyl, phenyl-substituted phenyl or carbethoxyalkyl R' is alkyl X is O or S, n is O or 1, and Y and Z are not the same and are O or S comprising blending the compound with a deodorizing compound selected from linoleic acid, linolenic acid or a mixture or linoleic and linoleic acids in an amount of 5 to 40 per cent of the weight of the said compound.

131920. J. H. Fenner and Co. Limited. Improvements in or relating to V-belts. A V-belt comprising a plurality of reinforcing layers of textile fabric located between radially inner and outer layers of rubber and a fabric cover or jacket encasing the whole belt, the fabric cover and/or at least one of the reinforcing layers having a coating of soft rubber.

131921. The National Cash Register Company. A flexible sheet or ribbon for marking surfaces. In a flexible sheet or ribbon carrying on one of its surfaces a detectable marking composition includes a thermoplastic amino-triazine-sulphonamide-aldehyde copolymer and polysiloxane binder material.

131922. G. S. Taskar. Improved would box with a jacket. Comprising a rectangular or square shaped box, the four walls of which are outwardly sloping affording a frustum shape mould of prossed sand with lower plain having layer area, one pair of diagonally opposite corners is fixed and rigid construction while the other part is capable of sightly opening and further tightly closing by means of a set of two levers on each side.

131923. **Void.**

131924. S. P. Kanhere. Improved castor wheel. Characterized in that there are provided two bracking lugs mounted on two 'U' shaped strips and which articulate with a framework, the said framework moves on the axle of the castor wheel and further carries a pair of cams on each side and which cam assists in throwing apart or bringing closer together the braking lugs, which are further connected by two strong springs.

JUNE 30

131925. Union Carbide Corporation Electrically conductive composite article and process for producing the same. [Addition to No. 126513]. Consists of 50 per cent to 70 per cent by weight of an electrically conductive refractory boride compound and from about 30 per cent to 50 per cent by weight of boron nitride, the composite article having an oxygen content of less than 0.5 percent.

131926. Imperial Chemical Industries Limited. Process for the manufacture of monoazo dyestuffs, process for colouring cellulosic textile materials therewith and the textile materials so dyed. (July 21, 1970). Comprises condensing together 2 moles of cyanuric chloride, 1 mole of m-phenylene diamine sulphonic acid, 1 mole of an amine of formula NH R and 1 mole of an aminoazo compound of formula $N_2-N=N=BzNH_2$, wherein R, Np and B have the meanings stated above.

131927. The Firestone Tire and Rubber Company. Polymerization process. Comprises agitating a mixture of a monomer a hydrocarbon diluent and a lithium based initiator in a pressurised vessel at a temperature produced by the exothermic polymerisation, transferring the materials to a second vessel from where the volatile materials and vapours are boiled off.

131928. Void.

131929. Void.

131930. **Void.**

131931. Void.

131932. Void.

131933. Takeda Chemical Industries, Ltd. A method for the manufacture of esters of B-5050 or tetrahydro-B-5050. Reacting antibiotics B-5050, tetrahydro-B-5050 or α -ester of tetrahydro-B-5050 with an esterifying agent containing an ester group of 2 to 7 carbon atoms derived from an organic carboxylic acid.

131934. Wenger Manufacturing, Inc. Die structure for extruding products of various densities. Comprises an extruder with tubular structure having die rings for controlling the density and releasable means for mounting the diering (having die opening) between the closure and discharge land of the said tubular structure.

131935. Nathan Brodie. A device for blocking vas deferems to prevent the flow of sperms from the testis. (June 22, 1971). Characterized in that the size of the device is the size of the interior of the body tube and being inert to the body tube and having holding means for maintaining the device in position in the body tube.

131936. R. Natarajan. Pneumatic friction clutch. Comprising of a hub, drive discs, friction element, friction disc and an air chamber and piston assembly.

131937. Indian Institute of Technology. An improved wire gauge. Comprises two rods, two of whose ends are immovably attached to each other and with the other two ends thereof spaced from each other, and a member which maintains the said spaced relationship is attached to the other two ends.

131938. Farbwerke Hoechst Aktiengesellschaft vormals Meister Lucius and Bruning. Dyestuff dispersious and process of preparing same. Containing the required dyestuff, a liquid carrier and dispersing agent sulfo groups containing condensation products of phenol-formaldehyde.

131939. Farbwerke Hoechast Aktiengesellschaft vormals meister Lucius and Bruning. Process for preparing water-soluble metalliferous disazo dyestuffs. By Coupling successively in any order diazotized amines (1) 2-amino-hydroxybenzene-4-sulfuric acid (2) 1-aminobenzene-3- B-hydrozyethylsulfone sulfuric acid ester with a coupling component 1, 3-diaminobenzene-4-sulphoric acid, adding either after the first or after the second coupling a copper metal salt to obtain a metal complex dyestuff.

131940. Mofedeth Development Company Ltd. Elevator-conveyor for bulk material. Consists of two endless flexible belts, movable together along the working stretch with the bulk material fully enclosed between.

131941. Void.

131942. Kharkovasky Aviatsionny Institut. Differrential check valve. Comprising a body, a closing element and a sealing or mating seat, with a passage for a working medium, the cylindrical projection of the closing element entering the passage in the seat permitting said projection to move and cover it to a distance sufficient to prevent the over flow of the medium even when the closing element is not sealed on the seat.

131943. Chief Scientist, Research and Development Organisation, Ministry of Defence. Method of manufacture of nickel cadmium cells. Wherein the plates are formed by compressing the active material into tablets, wrapping it in 80 to 120 mesh steel wire net again compressing and wrapping in a 60 mesh net.

131944. Sekharipuram Venkiteshwaran Padmanabhan. An electronic high-speed and fail safe latched relay. Characterized without the oscillator circuit connected to first input and second input which are conventional power input and defined signal respectively through the base of two transistors.

131945. Void.

131946. Sekharipuram Venkiteshwaran Padmanabhan, Thathra Balaram Lakshmanachari and Padmakar Bhaskar Auti. An inductive vehicle detection system. Comprising a passive element and an active element, which active element is adapted to be connected to a power source and consisting of a transmitter and receiver an over lapping each other.

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131947. Void.

131948. Void.

131949. Void.

131950. Void.

131951. (1) Gerrit Johan Van Der Burgt. (2) Johannes't Hart and (3) Jacob Schrier-Improvements in or relating to spring systems. Comprising a lever mechanism with a point of application of a load and a point of application of a spring force, the effective transmission ratio between the displacement of the point of application of the load and the point of application of the spring force is adjustable.

131952. W. F. Vijaya. In door device of exercising on simulated rowing machine. Two long parallel rods connected at front and rear by cross members on which is mounted an inverted rigid 'U' frame is upstanding position and having a seat capable of moving on four wheels over the said two long rods.

131953. UCB S. A. Method of manufacturing an artificial paper. Comprises homogenizing a composition containing (a) 30 to 94.8 percent by weight of at least one rigid polyolefin having a melt index of almost 1 decigramme per minute, (b) 0.1 to 35 percent by weight of at least one polymer which in incompatible with the rigid olefine and when extruded by itself produces a brittle film which has a melt index lower than 10 decigramme per minute (c) 0.1 to 35 percent by weight of a macromolecular material producing compatibility between (a) & (b) and has a melt index of at most 2 dg/min; (d) 5 to 45 by weight of an inorganic filler having granulometry lower than 50 microns; (e) 0 to 10 percent by weight of adjuvants; the homogenised mixture is subjected to extrusion and the paper so obtained, if desired, being subjected to surface treatment.

131954. USS Engineers and Consultants, Inc. Apparatus for determining the oxygen content of a fluid comprising gas, molten metal or liquid. Comprises measuring E.m.F of a galvanic cell, which has a first component of a solid oxide electrolyte, a reference electrode formed by condensed phase mixture of a metal and its oxide contained in a tube the end of which exposes the solid electrolyte to the fluid, the oxygen content of which is to be determined and a second component exposable to the fluid and electrically connected to a second terminal both components being located in a refractory material and that the components and the surroundings refractory meterial are a disposable sensor unit.

131955. Expert Industrial Controls Limited. Electromagnetic devices. (2nd July 1970). In which there extends through a hollow plunger and indicator rod movable with the armature tge rod being visible from the exterior of the casing of the device for indicating armature position.

131956. Void.

131957. Void.

131958. Void.

JULY 2

131959. Council of Scientific and Industrial Research. Improvements in or relating to the electrolytic preparation of lead dioxide power. Comprises electrolysing a solution of 50-100 g/1 lead nitrate or 90/100 g/1 lead perchlorate in a divided cell, wherein 0.5 to 2.0 g/1 of addition agents like sodium lauryl sulphate, cetyl trimethyl ammonium bromide are added and graphite substrate lead-dioxide anode and stainless steel or graphite cathode are used.

131960. Council of Scientific and Industrial Research. Improvements in or relating to the electropolishing of aluminium and its alloys. Comprises using a bath of H_2 So_4. Cro_3 and one or more of glue, gum arabic or fish glue at current density 175 to 225 A/sq. ft. at 70-80°C for 10-15 minutes.

131961. Maurice Debry. Improvements relating to machine for automatically and continuously manufacturing reinforcements. Comprising a transverse member storing drum and a wire guide mounted on a frame to rotate about the same axis, means to rotate the wire guide, means for drawing longitudinal members from a store, means for moving the longitudinal members parallel to said axis in the direction of the drum, said means including guide barrels, means for correlating the movement of the longitudinal members with rotation of the drum and wire guide, and a cylindrical bearing integral with the frame and mounting the guide barrels coaxial to which are rotatably mounted the drum and wire guide, the drum being mounted about the bearing.

131962. Void.

131963. Void.

131964. Dunlop Holdings Limited formerly called The Dunlop Company Limited. Improvements in or relating to pneumatic tyres. (July 3, 1970). Comprises convoluting wide axial grooves, bars being formed between these grooves two circumferentially extending groves located one on each side of the tyre crown.

131965. G. D. Societa' In Accomandita Semplice Di Enzo Seragnoli E Ariosto Seragnoili. Improvements in or relating to devices for controlling the fed rate in cigarette packaging machines. Comprises a plurality of feelers electrically connected in parallel to one another and registering with the channels and relay means responsive to said feelers and adapted to control the circuit supplying inergizing current to other relay means controlling the electric motor.

131966. International Flavors & Fragrances Inc. A flavouring composition. [Divided out of No. 124881. Ante dated to January 16, 1970]. Comprising one or more bis 2 (alkyl-3 furyl) trisulphide and a carrier excluding water and common solvent.

131967. Bayer Aktiengesellschaft. Process for the dyeing or printing of fibres and shaped articles. (Prepared by diazotisation of 3-phenyl-5-amino- thiodiazole 1, 2, 4-and coupling with β -N- β' /methoxyethyl-N-phenyl-amino-ethyl-methylbenzylamine) are suspended in 300 cc of water, and 130 gms dimethyl sulphate are added with stirring at R. T.

131968. Farbwerke Hoechst Aktiengesellschaft vormals Meister Lucius & Bruning. Process for manufacturing novel water soluble monoazo dyestuffs. Coupling a diazotized β—naphtyl amine with an appropriate coupling component.

131969. Vsesojuzny Nauchno-Issledovatelsky Institut Zemleroinogo Mashinostroenia. Centrifugal suspension pump. The pump impeller has additional vanes installed on the impeller so that they are located outside the pump casing and arranged radially or nearly radially around the suction opening of said casing.

131970. Gosudarstvenny Nauchno-Issledovatelsky Energetichesky Institut Imeni G. M. Krzhizhanovskogo and Nauchno-Issledovatelsky Proektno-Konstruktorsky I Tekhnologichesky Institut Tyazhelogo Elektromashinostroenia Zavoda "Elektrotyazhmash". Apparatus for measuring the insulation resistance of the rotor of a brushless synchronous machine. Comprising an insulation-resistance measuring unit, supply source, coupler to connect rotor of synchronous machine switch, rotoary rectifier, exciter field winding, armature winding, Zero potential point inductor winding.

131971. **Guide Verri and Anna Maria Verri Nee Cesini.** Process for the treatment of woollen materials. Comprises contacting wool material with a first alkaline bath containing a peroxy compound and thereafter contacting with a second bath comprises a sulphur-containing reducing agent.

131972. **Foster, Yates & Thom Limited.** Improvements in or relating to moulding machines (July 4, 1970). Comprises at least one mould having lateral mould members and an end member, means of affecting relative opening and closing movement of the lateral member and the end member and disengageable means disposed in a link mechanism.

131973. **Foster, Yates & Thom Limited.** Improvements in or relating to moulding machines. (July 4, 1970). Having a support adapted to receive the removable moulding plate and carried by a member the support being displaceable relative to the said member towards or away from the reminder of the moulds.

131974. **Chatillon Societa Anonima Italiana Per Le Fibre Tessili Artificiali S.p.A.** Process for conferring antistatic properties to synthetic fibres and textile article and fibres and textile article thus produced. Coating on impregnating the fibres on articles with a mixture containing polymerizable mono and diesters and heat treating it at a temperature between 80° and 200° for a period between 1 and 90 minutes.

131975. Void.

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131976. Void.

131977. **Richter Gedeon Vegyeszeti Gyar R. T.** A process for the acylation of 17 -hydrozysteroides containing enolizable oxo-group. 17α methyl-17 β-hydroxy-ester-4-an-3-one is reacted with acetic anhydride in the presence of glacial acetic acid containing hydrochloric acid and antimony trichloride.

131978. **Girling Limited.** Improvements relating to transmission assembly for tractors and like vehicles. (July 4, 1970). Comprising a stationary casing enclosing transmission gearing including a rotable shaft and brake discs in which a brake housing is rigidly mounted in said casing and incorporates a bore the axis of which is parallel to that of the shaft, friction members are in the bore, and an hydraulic actuator is located in the housing.

131979. **Girling Limited.** Improvements in disc brake for tractors or like vehicles. (July 4. 1970). Comprising a stationary housing a rotable firiction disc and a hydraulic actuator in which the actuator comprises a pair of cooperating annulars cylinder and piston members, one of the members comprising a metal shell of channel section held against rotation relative to the housing and the other member being azially movable keyed to the shell.

131980. **Kamyr Aktiebolag.** Method of continuous cellulose digestion and digester adapted for performing the method. Method of continuous cellulose digestion wherein a coherent column of chips to mix and with a digesting liquor during its continuous downward motion through an upright digester is caused to pass first through a zone where the fibre material is impregnated with a digesting liquor at a comparatively low temperature and then through a digesting zone where a temperature is maintained which is suitable for the dissolution of the liquor contents of the fibre material.

131981. Void.

131982. **Kennedy Van Saun Corporation.** A grinding mill system. In a grinding mill system having a conduit for conveying the classifier reject from the classifier to the feed inlet, the improvement is a mechanism mounted on the conduit which is a pivot shaft a vane fixed to the pivot shaft and having a movable portion lightly resting on the stream of oversize solid material flowing through the conduit, the movement of the vane and shaft produces a variable electrical signal for controlling the rate at which the feeder delivers solid materials to be ground.

131983. Void.

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131984. Void

131985. **Council of Scientific and Industrial Research.** Machine for formation of paper twine out of paper tape. Comprises a common drive, driven rotating nozzle with an orifice, a driven roller a fixed nozzle mounted in between the rotating nozzle and driven roller, the orifice of rotating nozzle being larger than the orifice of fixed nozzle.

131986. Void.

131987. **Union Carbide Corporation.** Machine for packaging articles in a pouch of thin heat shrinkable thermoplastic film. An article supply means, a pouch supply means, a package removal means, a multi-station indexing horn assembly and a multi-station indexing mandrel assembly and means for indexing said assemblies.

131988. Void.

131989. **Imperial Chemical Industries Limited.** Process for making ethylene copolymers suitable for use in making laminates. (July 20, 1970). Characterized in that the relative proportions of ethylene, methacrylic acid, alkyl acrylate or methacrylate and vinyle-ester are so chosen as to produce a copolymer comprising (a) from 50 to 93% by weight of copolymerized ethylene (b) from 2 to 40% by weight of copolymerized methacrylic acid and (c) 5 to 48% by weight of a mixture of copolymerized alkyl acrylate or methacrylate with at least 3% of copolymerized vinyl acetate.

131990. **F. Hoffmann La-Roche & Co. Aktiengesellschaft.** Process for the preparation of Naphtho-quinone derivatives. 2, 3-dichloro-1, 4-naphthoquinone reacted with rac 2-endobornanamine.

131991. **Farbwerke Hoechst Aktiengesellschaft vormals Meister Lucius & Bruning.** Process for the manufacture of a pyroglutamylpeptide. Comprises heating the hydrogenated Z-Gln (MbH)-his-pro-NH_2 under reflux with a mixture of anisole and trifluoro acetic acid.

131992. **Carding Specialists (Canada) Limited.** A Plate flat for carding machine, a method of manufacturing it and a carding machine incorporating the same. (July 7, 1970). Comprises a carrier member of sheet metal and card clothing comprising a foundation secured to the concave surface of the carrier member and a plurality of discrete wires protruding from the foundation.

131993. Void.

131994. **The Wellcome Foundation Limited.** Method of Syntheses Pteridines. (July 27, 1970). Process for preparing pteridines comprising effecting redirective cyclisation of a suitable amino-hydroxy-nitro pyrimidine oxime.

131995. Fierro Esponja S. A. Method of and apparatus for reducing particulate metal ores. Comprises a vertical shaft reactor having a downwardly moving bed of ore particles, said bed comprising an upper reducing zone and a lower cooling zone means for feeding hot reducing gas, means for withdrawing reducing gas, a cooling loop, a cooling gas supply conduit, a rent gas conduit connected to said loop.

131996. E. K. Shule, S. S. Kutukov, E. I. Rytvin, A. A. Myagchenkov, M. D. Khodakovsky, N. G. Bakanov, N. I. Shevchenko and O. P. Shiman. Apparatus for producing fibres from melts of thermoplastic materials such as glass slag and minerals. Comprising a housing, a heater in the hosuing made and disposed so as to form and upwardly convex cross-partition, perforation in the partition and one additional heater located below the partition.

131997. Void.

131998. Void.

131999. Void.

132000. Void.

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132001. Void.

132002. N. S. Balakrishnan. Improvements in or relating to flexographic printing machines. Flexographic printing machine comprising of a printing cylinder loosely mounted on an eccentrically supported shaft gripped by a bracket the bracket being connected to spring loaded links, both the ends of the linking roller as also of the fountain roller are rotatabling and eccentrically mounted in holders, a spring loaded pivotably mounted frame carries pressure rings and a cam roller adapted to be actuated by a cam.

132003. Tony Ralph Sarich. An improved rotary motor. (July 6, 1970). Comprising a piston member having vanes and movable in a housing having a cavity sealing means between them to divide the cavity into a plurality of chamber and means to regulate the flow of a working fluid into and from said chamber.

132004. Void.

132005. Imperial Chemical Industries Limited. Production of benzene and hydrogen. Comprises dealkylating alkylbenzenes by passing their vapour with steam over dealkylation catalyst that contains a Group VIII noble metal, and separating benzene from the organic reaction product.

132006. Void.

132007. Void.

132008. The Marley Company. Splash Bar for cooling tower fill assembly. Comprises an elongated, horizontal splash for extending transversely of horizontal air flow, the bar being of open base configuration and having a pair of longitudinally extending solid, upright sides, and a top integral with the sides and spanning them, and provided with a pair of splash surfaces sloping downwardly inwardly and having a multiplicity of openings.

132009. Giddings & Lewis, Inc. A method of manufacturing a bushed receptacle assembly, and a bushed receptacle assembly so manufactured. Comprising a bush in first machine tool element shot pin locating means in second movable machine tool element forming bore in first element w.r.t. second element bush loosely retained in bore define a clearance volume and a cement is being injected thereto.

132010. Clark Equipment Company. A fluid control system for an engine. Comprising fluid pump with movable member fluid motor, means connected to said movable member for biasing it and another means responsive to speed of the engine.

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132011. J. P. Mathur and P. P. Mathur. Fire alarm device. Comprising a strip of non-conducting material coated wholly or partly at its one face by coal and connected at each end to wires of the alarm circuit.

132012. Void.

132013. Void.

132014. Edward L. Bateman Limited. Gas scrubbing method and apparatus. Comprising dividing the gas into at least one divergent and one convergent stream, intermingling the two convergent stream into a zone located at the apex of the converging path and introducing the scrubbing liquor before intermingling, and apparatus therefor.

132015. Energy Sciences, Inc. Electron producing apparatus. Having an anode and a cold, high current field emission cathode; means for applying voltage pulses between the anode and cathode and means for effectively providing a continual plasma replacement layer upon the external cathode surface comprising means for continually supplying to said surface a low atomic number low ionization-potential gas readily absorbable upon said surface.

132016. The Singer Company (U.K.) Limited. Method and apparatus for the production of textile fabrics and the fabric produced thereby. Has weft wise extending yarns comprising yarns knitted together and bound in by crossing yarns extending in warp-wise direction of the fabric.

132017. Hindustan Vacuum Glass Ltd. Improvement in or relating to vaccum glass tumbler. Characterised in that the inner container is provided with a ridge and a concave groove on its outer wall and below the mouth thereof and the outer container having a radially and inwardly directed lip extending all around its mouth the said lip having a diameter corresponding to the outer diameter of the vacuum bottle or inner container along the grooved portion thereof.

132018. Void.

132019. Void.

132020. Void.

132021. Void.

132022. Void.

132023. Sandoz Ltd. Process for the production of new phosphonic acid amide esters. (July 9, 1970). Reacting the halo derivative of O-alkyl-N-alkyl-phosphoramide with -2-dialkyl amino-4-methyl 6-hydroxy-pyrimidine.

132024. Institut Francais Du Petrole, Des Carburants Et Lubrifiants. Process for selectively hydrogenating petroleum cuts of the gasoline range in several steps. Comprises, (a) reacting feed stock with hydrogen in the presence of catalyst having metal from group VIII, (b) reacting the product with hydrogen in the presence of catalyst comprising molybdenum or tungsten or an oxide or sulfide thereof on a conventional carrier (c) reacting the product with hydrogen in the presence of catalyst comprising molybdenum or tungsten or an oxide or sulfide thereof on a conventional carrier.

132025. Richter Gedeon Vegyeszeti Gyar R.T. A Process for the acylation of sterane compounds having hydroxyl groups in the allyl-position. Comprising reacting 3 β 17, β dihydroxy 17 α Methyl androst-4-en and acetic anhydride in the presence of pyridine and iodine catalyst.

132026. Tata Engineering & Locomotive Company Limited. A seat for vehicles for example, commercial vehicles. Comprising a fixed frame, a movable frame, support means for supporting movable frame above fixed frame and spring means provided between the frames.

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132027. Carrier Corporation. Motor compressor unit. Wherein the suspension system for mounting the unit comprises support members affixed to the inner surface of the shell resilient means connecting the members and said unit and step means to prevent excess movement of the unit.

132028. Carrier Corporation. A cylinder block for a motor compressor unit having discharge muffling means. Including means defining a cylinder wall means including first, second and third member defining a space therebetween the third member separating the space into a plurality of serially connected restricted and expanded sections.

132029. Carrier Corporation. Hermetic motor compressor unit. Wherein a suction gas muffling means comprises a cylinder head having a cavity having an upper and lower section separated by a transverse baffle member and the lower section is further separated into an outer and an inner portion by a second baffle member.

132030. Dunlop Holdings Limited. Improvements in vehicle suspension systems. Comprising an axle support member provided with a primary suspension system and a secondary suspension system.

132031. Farbwerke Hoechst Aktiengesellschaft vormals Meister Lucius & Bruning. Process for the manufacture of fast dyeings or printings on fibrous materials containing cellulose. Applying metal containing reactive dyestuffs and fixing them by means of alkaline agents or heat.

132032. Void.

132033. Raymond Camus. Construction element made of reinforced plastics. Characterised in that reinforcing members are provided between the plastic material core and a resin covering of the core.

132034. Veb Filmfabrik Wolfen Fotochemische Werk Berlin. Process for the production of photographic emulsions. (December 4. 1970). Characterized by adding tetrachloro auric acid. ammonium or potassium thiocyanate as well as sodium thiosulphate or sodium tetra thionate to the redispersed emulsion containing 3 to 30 grams of silvers per gram of gelatine before the step of chemical maturing.

132035. Artos Dr. Ing. Meier-Windhorst Kommanditgesellschaft. Process for the manufacture of shoe-material. Consisting in shrinking the fibrous fleece by water, impregnating the shrunk material with a binding agent

132036. Pilkington Brothers Limited. Improvements in or relating to appratus for scoring sheet material, for example, glass sheets or continuous glass ribbons. (July 10, 1970). Wherein movable cutter assembly is connected to shaft projecting from housing wall of double acting pneumatic cylinder and piston the shaft being connected to piston two spaced air bearings are provided by air flow between the piston and cylinder.

132037. National Aeronautics and Space Administration. Honeycomb core structures formed of minimal surface element. Comprises an array of tubule sections definable within an imaginary three dimensional geometric planar structure the tubule sections define a simple closed curve in at least one plane of said structure.

132038. Shavax Khurshedji Karanjia. An inflatable chair, sofa or like item of furniture. Comprising an inflatable back-rest and inflatable arms being provided with one or more air valves for inflating them before use, and comprising a U-shaped tube sealed at its two remote ends and wherein said U-shaped tube comprises a plurality of sub-units formed by means of partition walls.

132039. Void.

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132040. Council of Scientific and Industrial Research. Improvements in or relating to electrolyte for the aluminium electrolytic capacitors. Characterised in that a mixture of ethylene glycol and mono or diethanolamine butyrate are heated for a period ranging between 5 and 20 minutes further characterised in that methanol or ethanol is added to give the desired resistance of 400 ohms at 25°C and a salt of sodium or potassium or ammonium is added to give the shelf-life to the capacitor whereby capacitors containing the electrolyte can be operated between 25°C to +85°C.

132041. Void.

132042. Void.

132043. Shri Ram Institute for Industrial Research. Improvements in or relating to the synthesis of plasticizers from castor oil for polyvinyl chloride resins (PVC). The esterification of the ricinoyl derivatives with a dibasic acid is carried out to yield the monobasic esters which are farther reacted with the monohydric aliphatic alcohols to yield the plasticizer.

132044. Void.

132045. Universal Oil Products Company. Flow distributing apparatus and use thereof. Comprises a tubular form inlet member which projects into a contacting chamber one perforate flow mixer means positioned transversely in the inlet member and above the lower end, a perforate distributor plate positioned transversely in the lower end. and a plurality of concentric frustraconical baffle members below the plate.

132046. Universal Oil Products Company. High octane unleaded gasoline production. Reacting a heavier-than-gasoline charge stock with hydrogen in a catalytic hydrocracking reaction zone, separating the resulting hydrocracked product effluent, reacting at least a portion of said liquid stream and hydrogen in a reforming zone, separating the reformate to provide an aromatic stream, a saturated normally liquid stream and a second saturated vaporous phase reacting at least a portion of said saturated normally liquid stream in a saturate cracking reaction zone to produce a cracked gasoline boiling range liquid stream and a substantially unsaturated vaporous phase, reacting at least a portion of said first and second saturated phases in an alkylation zone, recovering said aromatic stream said cracked gasoline stream and said alkylate gasoiine stream as said high octane, unleaded gasoline pool.

132047. Girling Limited. Improvements in and relating to servo-motors for vehicle brake systems. (July 16, 1970). Comprising a plurality of rigid fingers held in regular circularly spaced relationship of which some, but not all, are adapted to pivot alternatively about the concentric valve seats.

132048. Universal Oil Products Company. Solid phosphoric acid catalyst and method of manufacture and use thereof. Subjecting the steam dried catalyst to a treatment with dry air at 288 to 454°C.

132049. Void.

132050. Development Consultants Private Limited. Improvements in or relating to retaining walls. Comprising at least two integrally pre-cast ribs projecting from the surface of the retaining wall unit, each rib being provided with a semi-circular vertical groove, a pre-cast flange in between the said two ribs and one or more diaphragms horizontally provided in between the ribs.

132051. K. K. Xavier. An improved drawing board for drafting machines and a process for making the same. A board comprising reinforced and prestressed wooden planks a stiffener frame fixed on bottom face of the board, border angles fixed on the edge on three sides of board and clips for holding paper fixed permanently on the border angles.

132052. K. K. Xavier, Fluid operated board tilting mechanism for drawing boards or like boards for any purpose. Comprising an operating wheel-cum-rope pulley mounted on a hollow shaft fixed to a horizontal frame, a stiffener frame hinged to the frames a board fixed on the stiffener frame. a plunger with its head mounted on a solid shaft fixed in a bracket pedestal fixed on a cross beam, a cylinder for the plunger on top of face of the cylinder being welded a hydraulic ram which moves in a ram cylinder. a cylinder cover through which the plunger moves. said ram working in a cylinder moves in a ram cylinder cover through which the cal nut rotatable in a cylinder bottom face plate on the outside of which one two partial flanges pivoted to two screws fixed to two hangers fastened symmetrically on a second cross beam supported on the horizontal frame, a rope pulley fixed with the nut. an endless rope connecting the rope pulley and the operating hand wheel. a pair of guide pullies supported on a common shaft fixed on a pair of plate attachments fastened to the Partial. flunges to guide pullies in pairs. a pedestal for each pulley. a third cross beam with the pedestals supported on the horizontal frame and a rope tension cum guide pulley.

132053. K. K. Xavier. Improvements in or relating to parallel motion drafting machines. Wherein the mechanism for positively moving the beam comprises a roller chain on each side of the board, a head sprocket for each chain, the sprocket being fixed on the outer end of short solid shaft to the inner end of which is fixed the one end of a hollow shaft, a follower sprocket for each chain, each follower sprocket being mounted on the outer end of a second solid shaft the square neck of the rear end of which shaft is fixed in a bracket the bracket being fixed to on second bracket fastened on either side of the bottom corner bottom face of the board, a pair of fork attachments on the bottom face of the beam's each end, an attachment plate engaging a vertical slot in each fork, attachment, a U shaped clamp having its open top end fastened to each attachment plate and engaging at its lower side one roller in the upper run of each chain.

132054. Biraj Krishna Basu, C/o N. K. Dutta. Improvements in or relating to bobbins for jute spinning machines. Characterised in that the upper flange is made of laminated fibre discs reinforced with metal insert.

132055. Void.

132056. The Metal Box Company Limited. Containers. The container is subjected to local heating of at least one selected zone of its surface so as to reorientate the molecules of the material in the said zone.

132057. Toyo Jozo Kabushiki Kaisha. Process for the preparation of antibiotic tuberactinomycin-N. Comprises cultivating streptomyces griscoverticillatus var. tuberacticus FERM P-619 in an aqueous nutrient medium under aerobic conditions until substantial antibiotic activity is imparted to said medium.

132058. Cardwell Westinghouse Company. An improved railroad car brake rigging arrangement. Employing a cylinder lever swingable about a pivot pin and operably connected to a brake cylinder for actuating the same.

132059. Snam Progetti S.p.A. Process for producing carboxylic acids. Comprising subjecting a mono-metallic salt of a carboxysulphonic acid to pyrolysis.

132060. Snam Progetti S.p.A. Pyrolysis of amidocarboxylic acid derivatives. Comprising subjecting a metal salt of an amodo carboxylic acid to pyrolysis and separating the products by conventional methods.

132061. Prolyzenz Ag. Nozzle for feeding molten metal to moulds in the continuous extrusion casting of metal strips. A nozzle has inserts arranged around its external circumference adjacent its outlet end preventing direct contact of nozzle surface with mould.

132062. Henry Arnold Andersson. Improvements in or relating to methods of manufacturing footwear. Comprising forming the upper with a lower edge portion, placing the upper on a last means, positioning the upper and the last means as a unit on the top of a mold means, arranging the upper such that the flange and the edge portion at the lower and extend into the mold cavity, covering the mold cavity at the top by the unit, molding the members as portions of an integral piece and removing the finished shoe.

132063. **N. V. Philips Gloeilampenfabrieken.** A device comprising a plurality of series arranged storage elements. Comprising storage elements including a write circuit connected to an information pulse course and an output circuit means connecting an information output of a storage element to an information input of the subsequent storage element and a control pulse circuit.

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132064. **Orissa Cement Limited.** Refractory bricks and lining kilns with said bricks. Characterized in that the working face of the brick is tapered at two opposite sides thereby leaving a tapering gap between any two adjacent bricks and out of the remaining two sides of the bricks.

132065. Void.

132066. Void.

132067. **N. L. Industries, Inc.** Vibration-resistant, thread-forming screw. Comprises an elongated threaded stank and a plurality of exterior lobes distributed circumferentially about said shank and extending spirally therealong angularly opposite to the direction of threads.

132068. Void.

132069. Void.

132070. **Gough and Company (Hanley) Limited.** Improvements in the casting of ceramic articles. Comprising a slip reservoir, a slip dispensing nozzle, a shut off valve, a level sensing means, characterised in that the level sensing means incorporates two conductive probes associated with the nozzle and arranged so that when the nozzle is positioned for filling a mould, a circuit will be completed between the probes by the slip dispensed into the mould.

132071. **W. Hermanns.** Containers. [Divided out of No. 123686: ante-dated to October 23, 1969]. Characterised in that the next hermetically closable doors provided with upper closable charge opening (2) and lower closable discharge opening (3).

132072. Void.

132073. **Lonza Ltd.** Process for the production of impact-resistant, transparent polymers of vinyl chloride. Characterised in that vinyl chloride is polymerised in the presence of 2 to 10% by weight of a polymer of 2-ethyl hexylacrylate with at least 50 per cent by weight of 2-ethylhexacrylate, the maximum and minimum means particle diameter of the polymer of 2-ethylexylacrylate to be used, being calculated by the equation maximum mean particle diameter in $m\mu = 310$-(24 times concentration of the polymer of 2-ethylhexylacrylate in per cent by weight and minimum mean particle diameter in $m\mu = 33$-(3.5 times concentration of the polymer of 2-ethylhexylacrylate in per cent by weight) respectively.

132074. **Kabushiki Kaisha Osaka Packing Seizosho.** Improvements relating to manufacture of aqueous slurry of calcium silicate crystals and shaped products therefrom. Heating with stirring an aqueous slurry containing lime and a reactive siliceous material.

132075. **Sumitomo Chemical Co.. Ltd.** Method for producing pure m-cresol. Comprises forming a molecular compound of m-cresol and urea and decomposing it characterized in that in the process is carried out in a solvent selected from benzenes substituted or not with alkyl or halogen. dialkyl ethers and cyclic ethers.

132076. **Leningradsky dvazhdy ordens Lenina Metallichesky zavod imeni XXII Siezda KPSS.** Profile-grinding machine. Comprises a bed, a grinding stock mounted on the bed, a grindstone mounted on grinding stock, a dressing mechanism on grinding stock, a bed plate on the bed, head and tail stocks on bed plate, an axle installed in head and tail stock, jaw plates secured an axle, an arbor, a master form and a contact member.

132077. **RCA Corporation.** Transistors. Characterised by that portion of the portion of the emitter region adjacent the emitter base junction having a sheet resistance approximately equal to the base region sheet resistance divided by the maximum bita of the transistor.

132078. Void.

132079. Void.

132080. **Union Carbide Corporation.** Process for absorbing acid gas impurties. Comprises adding to aqueous alkanolamine solution an inhibiting amount of corrosion inhibitor selected from the group consisting of (i) a combination of 9 to 1 parts by wt. of vanadium compd. to 1 to 9 parts by wt. of an antimony compound, (ii) stannous salts, (iii) organo-tin compds., (iv) nitro-substituted aromatic acids, (v) nitro-substituted acid salts, (vi) benzotriazole.

132081. **Palitex Project Company G.m.b.H.** Two-for-one twisting machine with compressed air operated threading machanism. Characterised in that an injector nozzle forms part of a spindle rotor, and a suction opening of the nozzle revolvable with the rotor, an outlet opening of said nozzle leads to an outlet duct of a yarn storage disc.

132082. **Tilghman Wheelabrator Limited.** Improvements in or relating to blasting machine. (July 14, 1970). Comprising a pair of splayed tringular shaped side walls interconnected by a plate of regular trapezoidal configuration.

132083. **Schweiz. Serum-Und Impfinstitut Und Institut Zur Erforschung Der Infektionskrankheiten.** Process for producing anhydrous smallpox vaccine. (April 28, 1971). Comprises dispering lyophilised vaccinia virus in low viscosity, volatile silicone oil adding highly viscous silicone oil or silicone paste continuing the dispersing operation followed by removing the low viscosity silicone oil.

132084. **Instytut Nawozow Sztucznych.** Process for cooling the circulating gas in an ammonia synthesis. Contacting the gas with continuously circulating liquid ammonia at the rate flow 1—10 times exceeding the quantity of ammonia produced per time unit wherein said ammonia before being reintroduced into contact with the gas is cooled to a temperature not higher than the assumed lowest temperature of gas circulating system.

132085. **Elektro-Thermit GmbH.** Device for destroying machinery. Improvement comprising ignition transmitter means connected to igniter means and inner casing closed on one end perforated inner tubing mounted in inner casing perforated annular ring between inner tubing and inner casing, easily meltable means covering perforations an explosive mixture in inner casing, and ignition rod with one end in explosive mixture end other end in the inner tube.

132086. **H. F. A. Topsoe.** A process for the purification of crude methanol. (August 10, 1970). Characterized in that a side purge stream from the middle section of a second column in recycled to the upper section of first column at a level at least one tray above the level of introduction of crude mathanol.

132087. Void.

132088. Void.

JULY 13

132089. Council of Scientific and Industrial Research. Electrodeposition of castor oil maleic anhydride resins on mild steel. A process for the electro-deposition of castor oil-maleic anhydride resins on mild steel which consists in heating castor oil with maleic anhydride, rosin, shellac, isoamyl alcohol, the resultant adduct is water-solubilized by partial neutralization of the acid groups of the adduct to yield a negatively changed poly-electrolyte of the resin in water which is deposited on mild steel anode by passage of current.

132090. Joseph Lucas (Industries) Limited. Vehicle lamps. (July 18, 1970). Comprises a reflector having a parabolic portion formed with a central hole, an integral rearwardly extending skirt at the forward end of the parabolic portion, a dished circular lens closing the forward end of the reflector, the lens having a rearwardly extending integral flanges terminating in an outwardly extending annular lip.

132091. Void.

132092. Imperial Chemical Industries Limited. A method and apparatus for fermentation using microorganisms. (July 21, 1970). Continuously circulating fermentation medium comprising the substrate and microorganisms through a system having a compartment of ascending flow and a compartment of descending flow, connected at their upper and lower ends, and admitting an oxygen containing gas to the lower end of the riser, the dimensions of the system being such that in the riser the medium is transported continuously between a lower region, in which oxygen is absorbed, and an upper region at a lower hydrostatic pressure, in which carbon dioxide produced during fermentation is desorbed at a rate such that the carbon dioxide liquid phase partial pressure to which the microorganisms are subjected is within the range tolerable to the microorganisms.

132093. Societe Berri-Balzac. Method for the preparation of norpinane derivatives. "Anhydrous acetone, 2-[2-(2-dimethylamino-ethoxy)-ethyl]-6, 6-dimethyl norpinane and allyl bromide are refluxed".

132094. Void.

132095. Void.

132096. Shanmugasundram, Venkatesan. Portable—sedimentation Tank-cum-inverted filter for domestic sewage. Comprising a removable metal grid, latrine basin, charcoal pieces or light weight aggregates below the basin and supported by another metal grid, two doors and side doors and means for operating the doors for discharging solid sewage deposits.

132097. Void.

132098. Void.

132099. Battelle Development Corporation. Sugar crystallisation nucleating composition and method for the preparation thereof. Comprising mixing a low molecular weight polar organic compound with a sucrose feed syrup.

132100. E. I. du Pont de Nemours and Company. Process for preparation of a bromacil/diuron complex. Process for preparing bromacil/diuron complex which comprises intimately contracting bromacil and diuron in a molar ratio of 1 : 1.

132101. Void.

132102. Chief Scientist, Research and Development Organisation, Ministry of Defence. Anti rust and scale composition for prevention of rust and scale formation. Comprising an alkali chromate, cutting oil and non-ionic emulsifier wherein for each part of alkali chromate 3 to 15 parts of cutting oil is used and for each part of cutting oil 0.01 to 10 parts of non-ionic emulsifier is used.

132103. Chief Scientist, Research and Development Organisation, Ministry of Defence. Vapour corrosion inhibitor oil. Comprising a mineral oil fortifield with a polar corrosion inhibitor, organic phosphates and ammonium compounds of naphthenates/oleates.

JULY 14

132104. Council of Scientific and Industrial Research. A process for the manufacture of leather boards. Comprises grinding chrome leather shavings/trimmings into pulp, adjusting pH around the iso-electric point, adding a rubber latex stabilised with ethylene oxide condensate, fixing with $Al_2(So_4)_3$ and making boards from the coagulated pulp.

132105. Rustom Kaikhushru Bharucha, C/o. Dr. P. K. Bharucha. An improved temperature control device. Comprising a bridge circuit fed with a constant D. C. reference voltage, including a temperature sensing device, at the output of which an error signal is produced, an amplifier circuit for amplifying said signal and said amplified signal being fed to trigger circuit operating a relay which controls the apparatus treating the medium.

132106. Void.

132107. M. C. Gaikwad. Instant profile maker. Comprising plurality of straight rods, needles or stif fine thread, held between two flat ships or rectangular frame work, the rods or needles being capable of moving only when pressed against an article for profile.

132108. Hasmukhlal Tribhuwandas Khandhar. Instant ice-cream making machine. A rectangular receptacle with a lid, a cylindrical drum with a water tight lid and a handle, containing heat absorbing materials, is rotatably mounted inside the receptacle.

132109. Void.

132110. Void.

132111. Girling Limited. Improvements in or relating to lock actuators for vehicle wheel brakes. (July 21, 1970). Including clutch means selectively operable to effect locking and unlocking of an adjustable length strut which is normally unlocked and free to extend and contract to follow up movements of a brake applying member but can be locked in an extended position in a brake applying position.

132112. Farbenfabriken Bayer Aktiengesellschaft. A process for the production of halogen substituted aromatic amines. The corresponding halogen-substituted aromate nitro compound is hydrogenated in the presence of a alkaline with metal compound, a noble metal catalyst supported on active carbon and watermixible solvent.

132113. Societe Anonyme Tubest. Process and apparatus for producing by welding smooth tubes having thin or extra-thin walls and the products so obtained. [Divided out of No. 124239; ante-dated to November 29, 1969]. Producing by welding smooth tubes having thin walls characterised in that the blank is drawn into the device length by length, the welding electrode itself being displaced in an alternating rectilinear movement along a trajectory slightly longer than the drawn advance of the blank.

132114. Atlas Copco Aktiebolag. A tunneling machine. Comprising a frame structure having a front and rear portion, a cutting device mounted swingably on the front frame portion means for bracing the front and rear frame portions to immobilise them first and second jack means for moving one of the frame portions in non-braced position relative to the other first and second supply conduit means for supplying liquid to the first and second jack means, first and second valve means in the first and second supply conduit means, means for measuring fluid supplied to the first and second jacket means and for actuating the first and second valve means to closed position when a pre-set volume has been supplied to corresponding jacket means.

132115. Eli Lilly and Company. Process for preparing novel cephalexin salts. Process for perparing novel 7-[D-2-phenyl-2-aminoacetamido] desacetoxycephalosporanic acid salts of sulphonic acid characterized by dissolving cephalexin in solution of mineral acid and adding to it a solution of alkali metal salt of sulfonic acid.

132116. Void.

132117. Ryutaro Yoritomi. Improvements in or relating to continuous squeezing press of the V-type. Comprises a pair of filter discs arranged face-to-face within an outer annular casing fixed to a base frame, a pair of shafts for supporting the filter discs a freely rotatable manner, the inner ends of the shafts pivotally connected with each other by a center pin.

132118. Keene Corporation. An apparatus for detecting and measuring the concentration of suspended solids in a liquid. Comprising a sensing device, a power source, the sensing device comprising a housing having a light source and plurality of photocells, conversion means connected with the output terminals of photocells for taking the logarithmic ratio of the photocell output signals.

132119. Reifenhauser KG. Worm extrusion press for plastics. A worm extrusion press for plastics materials having a cylinder and a worm rotatably disposed therein, said worm presenting a degasifying zone, the cylinder and/or the worm having saction means at said degasifying zone, being established as gravity zone the said extension press being disposed substantially vertically.

132120. Void.

132121. Void.

132122. Void.

132123. Richter Gedeon Vegyeszeti Gyar R. T. Process for the acylation of 2-aminobenzophenone derivatives. Characterized by reacting carbobenzoxy-alamine with Pcl 5 and adding to this reaction mixture 2-amino-5-nitro benzophenone.

132124. SKF Industrial Trading and Development Company N. V. An arrangement for rectilinear guiding of a machine member along a beam. The beam is T or double T-shaped and the ball bracks provided in the beam are arranged in the connections between the web of the T and portions of the cross bars emanating therefrom.

132125. Bremshey Aktiengesellschaft (formerly known as Bremshey & Co.). Improvements in or relating to umbrellas. A stick with a crown at one end and a handle at the other, the handle having a recess which receives a guide sleeve of a slider that slides on the stick, the recess containing a stick support plate which can slide up and down.

JULY 15

132126. Rhone-Poulenc S. A. Process for the preparation of thiazolidine derivatives. Comprises reducing a 3-(niytophenyl)-thiazolidine derivatives.

132127. Void.

132128. Eastman Kodak Company. Method of making photographic silver halide emulsion. Comprises precipitating grains of not greater than 0.2 micron average diameter, chemically sensitizing them with at least 50 mg. of noble metal mole of silver halide and labile sulphur from one fifteenth to one seventyfifth the weight of noble metal and spectrally sensitinzing with methine dye.

132129. British Insulated Callender's Cables Limited. Clips suitable for use in supporting overhead contact wires in electric traction systems. (July 15, 1970). Comprising a pair of clamping plates having aligned apertures, the plates being shaped to provide co-operating clamping jaws, and a locking member having pairs of limbs.

132130. N. V. Bekaert S. A. Improvements in or relating to fastening the free ends of a twisted wire joint of a mesh or ring to an elongate member. Comprising the steps of bending back the two free ends in opposite directions and on either side of the twisted joint and thereafter winding the free ends of wire but not the twisted joint in opposite directions around an elongate member.

132131. Void.

132132. Takeda Chemical Industries. Ltd. A method for the production of benzodiazepine derivatives. Process for production of a benzodiazepine derivatives which comprises reacting 2-amino-5-nitro benzophenone with ethyl ortho-haloacetate, the resulting product is reacted with ammonia, and the product is finally subjected to right-closure with an acid or a logic substance.

132133. Bunker Ramo Corporation. A method of asssembling a connector element having a body member and a body member for said connector element. Second center section of the body member is including a portion adapted to be bent-up at an angle to the axis of the member when flange is over first center-section to captivate said flange between enlarged end section and said bent up portion.

132134. Arbos S.p.A. Improvements in or relating to wheeled or tracked low centre of gravity harvester-threshers particularly suitable for operation on sloping soils. Comprising engine transmission unit rear drive, heater, grate shaker, silo for storage of product is disposed in the lower portion of the structure.

132135. Kuraray Co., Ltd. An apparatus for continuous polycondensation reactions. Comprising a rotor assembly disposed within an outer shell at the lower portion thereof, the rotor assembly having rotating blades with axis mounted at the end walls of outer shell, a set of portion discs in association with the rotor blades, the partition discs having slits therein for allowing movement of the material from one portion to another, the apparatus having inlet feed means, separate product and vapour outlet means and also a jacketed outer shell for a heating medium.

132136. Void.

132137. K. Jayaraman. Tandem rolling mill. Comprising two sets of all passes, each roll pass consisting of a pair of rollers wherein the axes of one set of rollers are perpendicular to the axes of the other set.

July 16

132138. Void.

132139. Continental Water Conditioning Corporation. Quick-disconnect manifold assembly for a tank. Comprises manifold means a first nondeformable adaptive means, sealing means, a second adaptive means, fluid conduit means and retaining means.

132140. Void.

132141. Philip Morris Incorporated. Double edge safety razor embodying flexible blade pressure control. Comprises a handle assembly, a pair of skin pressure guards, a blade assembly and a blade, a pivotal mounting for said support and blade to permit floating movement of the support and means for biasing said support into a central position.

132142. Void.

132143. Dow Badische Company. Method of preparing shaped or hollow acrylic fibres and fibres so prepared. Containing at least 80% by weight of polyacrylonitrile comprising (a) spinning a solution of said synthetic polymer in an organic solvent and/or aqueous inorganic salt solution through an orifice, into a first bath maintained at a temperature of from —20°C to +25°C comprising a coagulant and a solvent, and/or a salt, the coagulant being present in an amount of from 35 to 95% by weight, for an average residence time of 1-40 seconds to superficially coagulate the fibre, (b) passing the partially coagulated fibre into a second bath maintained at a temperature of from 30°C to 120°C comprising a coagulant and optionally a solvent, and/or a salt, the coagulant being present in an amount of more than 65% by weight, for an average residence time of 1-75 seconds, wherein the first and second baths contain the same solvent and/or salt as was used in the spinning solution if the said first and/or second baths contain and solvent and/or salt; (c) washing the fibres; (d) stretching the fibres; and (e) drying the fibres, the last two steps being interchangable.

132144. Kennecott Copper Corporation. Extraction of copper and nickel from manganese nodules. Reacting the nodules with an aqueous solution of ammonia to solubilize substantially all the copper, nickel, cobalt and molybdenum and leave an insoluble residue of the iron and manganese in the nodules, separating from the residue the leach solution containing the copper, nickel, cobalt and molybdenum and free of iron and manganese in solution, and recovering the copper, nickel, cobalt and molybdenum from the leach solution.

132145. Kennecott Copper Corporation. Recovery of copper nickel, cobalt and molybdenum from complex ores. Manganese deep sea nodules containing oxides of iron, copper, nickel, cobalt and molybdenum are roasted after being admixed with carbonaceous material with carbon content from 3 to 10 per cent at 350 to 1000°C and leaching the roasted nodules with an aqueous solution containing at least 2 per cent ammonia and at least a 0.2 molar concentration of an ammonium salt.

132146. Kennecott Copper Corporation. A process for extracting metal values from deep sea nodules. Reducing the nodules with gaseous reducing agents at 250 to 900°C to produce nodules containing substantially all the manganese in manganous from and essentially free of metallic iron, leaching the reduced nodules with an aqueous solution of an ammonium salt and ammonia, whereby the copper, nickel, cobalt and molybdenum are selectively removed from the nodules while the manganese and iron remain in the nodule residue.

132147. Void.

132148. Burmah-Shell Oil Storage & Distributing Co., of India Limited. Apparatus for obtaining and dispensing a mixture of one liquid with another in a desired ratio. [Divided out of No. 123623; ante-dated to October 18, 1969]. Comprising a measuring vessel for the second liquid, means to fill the vessel, means to cause the said liquid to flow under pneumatic pressure, means to measure first liquid, means to discharge second liquid into the stream of first liquid into a common discharge nozzle.

132149. Burmah-Shell Oil Storage & Distributing Co., of India Limited. Apparatus for obtaining and dispensing a mixture of one liquid with another in a desired ratio. [Divided out of No. 132148; ante-dated to February 11, 1970]. An improvement of that described and claimed in Indian patent application No. 132148 characterised by the provision of a plunger in there by vessel and means to operate said plunger pneumatic pressure.

132150. Void.

132151. Void.

July 19

132152. J. Czirely. Contraceptive device. Comprises a flexible elongated receptable, an adhesive layer on the surface of the receptacle, at the open end thereof and a protective webbing disposed over the adhesive layer.

132153. Void.

132154. Void.

132155. I. Parekh. Improvement relating to choke. Comprising one U shaped magnetic core having coils around its limbs and a piston arrangement in between the limbs, in a cylinder, its movement making or breaking supply to a pair of contact and producing veriable inductance.

132156. Girling Limited. Improvement in or relating to servo motors. (July 24, 1970). Comprises a plurality of rigid radial fringers of radially outwardly divergent in shape and each of said fringers having a raised portion capable of acting as a pivot.

132157. Clayton Dewandre Company Limited. Improvements in and relating to vehicle braking systems. Wherein a load sensing valve is interposed in one circuit whilst pressure delivered by the other circuit is controlled by a relay valve.

132158. Joseph Lucas (Industries) Limited. Contact breaker assemblies for ignition distributors. (July 23, 1970). Which includes a carrier plate which is detachably secured to the timing plate of an ignition distributor and having secured thereto a pivot pin arranged to be engaged by the actuating rod of an ignition timing control mechanism.

132159. Velsicol Chemical Corporation. Process for the production of a new product consisting substantially of alpha and beta-chlordane. Reacting chlordene and chlorine in the presence of actinic light at a temperature upto the reflux temperature of the reaction mixture in carbon disulfide solvent.

132160. Void.

132161. Heinrich Koopers Gesellschaft mit beschankter Haftung. Coal gasification plant. Comprises a combustion chamber with a burner and means for discharging slag, a steam boiler with radiation and contact section, the combustion chamber on that and radiation section having vertical non-aligned axes parallel with one another radiation section having a gas flow cross section larger than that of the combustion outlet, and having waste matter discharge means at the side remote from the combustion chamber outlet.

132162. International Standard Electric Corporation. Improvement in television systems. (April 19, 1971). [Addition to No. 129186]. Comprising means arranged to select and store in response to the identification signal one of the time compressed signals and means to read out the stored signal to audio circuits during a corresponding plurality of from periods subsequent to receiving the time compressed signal.

132163. Gosudarstvenny Vesesojuzny Nauchno-Issled-Ovatelsky Institut Stroitelnykh Materialov I Konstruktsky. Method of making silicate concrete articles. Characterized in that for the purposes of achieving the desired load, the lime-silica binder has a definite pre-determined degree of hydration of the lime wherein the moisture content of the lime-silica binder in around 20 per cent of the total weight of the binder components before milling.

132164. Void.

132165. Dr. Nirendra Kishore Roy and Shri Pancham Lal Yadav (National Dairy Research Institute). A process for the manufacture of buffalo evaporated milk. Standarlising buffalo milk and converting the standarlised milk to evaporated milk by forewarming condensation, homogenisation and finely in-can sterilisation of homogenised concentrated with by heating at 121.5°C.

132166. Surendranath Nambiar. Alternate impeller rotary engine. Comprising two coaxial impeller shaft, each shaft carrying at least one radical blade, the two blades complementing each other so as to form an enclosed chamber between them and with a housing within which the shafts are mounted.

132167. Void.

JULY 20

132168. Council of Scientific and Industrial Research. Improvements relating to the device for conducting chemical conversions using electrodialysis technique. Comprising (a) ion-exchange membranes (b) electrode housings (c) distribution gaskets (d) spacers and (e) pressing frames.

132169. Farbwerke Hoechst Aktiengesellschaft vormals Meister lucius & Bruning. Process for the manufacture of acyl derivatives of insulin. Comprises reacting N(A1) N(B29) di-tert-butyloxy carbonyl insulin with an axcess of an activated derivative of a carboxylic acid such as hetero cyclic carboxylic acid etc. and treating the reaction product with a strong acid.

132170. Esb Incorporated. Improvements relating to electric batteries. Comprises a container having at least one transverse partition dividing the space inside the container into cell compartments, a stack of spaced alternately positive and negative electrode in each cell compartment, an inter cell strip connector extending through the partition and having one end connected to the positive electrodes in a cell on one side of the partition and the other end connected to the negative electrodes in an adjacent cell on the other side of the partition and a joint integral with the container and supporting one end of the inter cell strap connector.

132171. Textron Inc. Locking device for a bearing or the like. Having a ring lock of suitably formed spring-ribbon stock, self retained on the outer ring of a bearing, enabling simple and free assembly of the ring and clip to the ultimate mounting bore followed by angular displacement of the clip.

132172. Joseph Lucas (Industries) Limited. Ignition distributors. (July 23, 1970). Includes a hollow casing, a support surface, a contact breaker assembly base plate, a rotatable clamping device, and means rotatably mounting the calmping device on the base plate the clamping device having an inclined surface engaging the casing.

132173. Joseph Lucas (Industries) Limited. Contact breaker assemblies for use in ignition distributors. (July 23, 1970). Includes a carrier plate a fixed contact, a pivot post, an insulating heel member carrying a movable contact, the pivot post being shaped to co-operate with a tool.

132174. Joseph Lucas (Industries) Limited. Ignition distributors for road vehicles. (July 23, 1970). Comprising a hollow substantially cylindrical casing formed internally with a support surface and a groove, a contact breaker assembly base plate, said base plate being formed with a slot to define a resilient ear; and clamping means.

132175. Process Evaluation and Development Corporation. Method for separating the pith from the film fraction of crushed fibrous vegetable materials, especially sugar cane bagasse. Characterised in that sufficient amounts of an aqueous carrier liquid are simultaneously fed concurrently with or separately from the fragments of the crushed fibrous stalks to provide at least about 4.5 parts by weight of the liquid for each part of the fibre component.

132176. John Louis Gibbs and James Whitman Gibbs. Hydraulic tank assembly for a water closet. Having a hermetically sealed tank with two chambers, one chamber houses an inlet conduit, a valve controlled outlet conduit and a vertical tank valve controlled air vent, lifting means operatively conected with valve stem for moving valve head from closed to open position.

132177. Vladimirsky Nauchno-Issled Ovatelsky Institut Sinteticheskikh Smol. Process for the production of phenol-aldehyde foamed plastics. A liquid mixture comprising (1) Condensation products of phenol aldehyde of the novolak type, (2) condensation products of phenol aldehyde of the resole type and (3) acidic agent is allowed to foam at around room temperature or if desired at temperatures up to 100°C.

132178. C. M. Jain. Glazingbar. Comprising a bar with an arrow head and a tapering stem, a protruding rib to hold the middle side of glass firmly, and flanges to rest the glass and a pair of feet with bisected hexagonal each to prevent glass slipping down.

JULY 21

132179. Armsted Industries Incorporated. Stopper renewal device. Comprising base means to support the stopper, spring loaded means for clamping stapper against the base, cutter means fitted with spaced blades.

132180. Richter Gedeon Vegyeszeti Gyar R. T. Process for preparing 7-nitro substituted 1, 4-benzodiazepin-2-one derivatives. Reacting 1, 3, 4, 5-tetrahydro-5-phenyl-7-amino-2H-1, 4-benzodiazepin-2-one with carbobenzoxy-chloride, converting the amino group into nitro group removing the protective group by acid hydrolysis and treating with bromine followed by splitting off hydrogen bromide in alkaline medium.

132181. Richter Gedeon Vegyeszeti Gyar R. T. Process for preparing 1, 3, 4, 5-tetrahydro-2H-1, 4-benzodiazepin-2-one derivatives and salts thereof. Reductively cyclizing a benzophenone derivative.

132182. Egyt Gyogyszervegyeszeti Gyar. Process for preparing a salt of aminoadamantane. Characterized in that aminoadamantane is reacted in a solvent with an acid selected from the group consisting of α-mercaptoacetic acid, α-mercaptopropionic acid and β-mercaptopropionic acid.

132183. Text Ilipari Kutato Intezet. Device for the analysis of a frequency mixture available as an electrical magnitude. Comprising a signal receiving and signal reproducing device i.e. a stove, at least on filter of uniform time constant and selectively further signal processing device, a further stove, a switch-over system in which for each stove there is provided a mode-of-switching switch, a velocity switch and an output signal switch.

132184. Monsanto Company. A method of preparing the hollow filaments and reverse osmosis membranes prepared therefrom. Characterized by dissolving a cellulose ester in a solvent to form a solution having a solids content of 25-35 per cent and a viscosity at 100 poises at 50°C. extruding the solution to form hollow filament, passing the filament through an evaporative zone for 0.01 to 1 second. immersing the filament in water coagulation bath. forwarding it through water wash bath an annealing in a hot water bath at 65°C to 95°C.

132185. O. L. Siwersson and K. G. Terl. Improvements in or relating to devices for guiding material to the entrance end of a screw conveyor having a rotatable screw and a conduit therefor. Comprising at least one guide surface which is adapted to be rotated about the longitudinal axis of the screw conveyor, characterized in that the guide surface is coupled to the screw to rotate at together with it.

132186. Libbey-Owens-Ford Company. Soldering. Comprises applying heat to plurality of areas layer assembly and feeding simultaneously a separate supply of solder to each heated area.

132187. Continental Oil Company. Apparatus for plating heat-resistant articles. Comprising a hollow reaction chamber, heating means portioned along the walls of the chamber, a plurality of spray nozzles, a plating solution container communicating with the spring nozzle, means for tumbling the substrates and means for recovering the plated substrates.

132188. Farbwerke Hoechst Aktiengesellschaft vormals Meister Lucius & Bruning. Process for the preparation of water-soluble metal complex disazo dyestuffs. Process for the prepartion of metal complex disazo dyestuffs which comprises reacting one mole of a suitable diazotized aryl amine and 1 mol. of a diazotized phenyl amine in separate process steps and in an optional sequence with a suitable coupling compound, whereas the metallization of the azo dyestuffs by means of agents yielding copper, chromium or cobalt is carried out after any reaction step following the first coupling process.

132189. Spofa Spojene Pondiky Pro Zdravotnickou Vyrobu. The method of preparing methyl piperazine derivatives. 8-chloro-10(4-ethoxycarbonylpiperazino) 10, 11-dihydrodibenzo (b, f) thiepin is reduced *with* sodium bis(2-methoxyethoxy) aluminium hydride and contingent neutrulisation of the resulting base with inorganic or organic acid to give corresponding salt.

132190. Cough and Company (Hanley) Limited. Improvements in the electrophoretic casting of pottery. (March 3. 1971). Comprises the steps of pouring slip into an assembled multipart mould made of porous material and having a substantial wall thickness and an electrically conductive coating applied to its outer surface, allowing a short electrode dipped into the slip and the conductive coating of the mould. the potential between the outer surface on the mould and the electrode being selected so as to be high enough to cause significant deposition and low enough to avoid the formation of substantial irregularities in the inner surface of the casting being formed.

132191. Celfil Company Establishment. Method of making filter rods for tobacco products and filters made according to such method. At least part of the fibrous material employed of which the carbon and hydrogen components with react with sulphuric acid and separate carbon while being heated, that at least part of such fibrous material has added to it on the way from production to the making of the filter rods but prior to their wrapping a sulphuric acid component.

132192. United States Steel Corporation. Cement clinkers and method of making same. [Addition to No. 118028]. Preheating a raw mixture a temperature sufficient to remove surface water and water of crystallization therefrom but to a mixture temperature. feeding said raw mix into a heating chamber to raise its temperature at least 300°F within eight minutes to a temperature below the melting point of said raw mix but not more than 500°F below the melting point calcium silicate raw mixes and not more than 250°F below the melting point of calcium aluminate mixes and maintaining said raw mix at its last named temperature for a period of at least two minutes.

132193. Uss Engineers and Consultants, Inc. Apparatus for manipulating an oxygen injection lance. Wherein the lance is suspended from a carriage is connected with a counterweight said counterweight being capable of lifting the lance out of contact with the molten iron by gravity descent.

132194. Imperial Chemical Industries Limited. Apparatus for drawing or orienting filaments of a synthetic linear thermoplastic polymer. (February 9, 1970). [Addition to No. 127100]. [Divided out of No. 127100; ante-dated to 16th June 1970]. Comprising means for bringing a filament or yarn under tension a narrow jet supplied with a heated gaseous fluid and at least one snubbing means of arcuate form.

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132195. UCB, S.A. A process for preparing new substituted phenyl-2-pyrro-lidinones. Comprises cyclizizing by heating a corresponding 4-aminobutyric acid or an alkyl ester thereof.

132196. Void

132197. Joseph Lucas (Industries) Limited. Braking system for vehicles. (July 28, 1970). Differentiating circuit acts as a memory to monitor loss of wheel speed when the output of said circuit is clamped the memory permitting unclamping of the said circuit output, and reapplication of the brakes dependent on the monitored wheel speed loss signal.

132198. Sherritt Gordon Mines Limited. Method and apparatus for continuously determining the temperature of ore in a multiple hearth furnace. (August 4, 1970). In the method of roasting ore, the temperature of the ore in the bed is continuously determined characterised in that a thermometer is placed in the dead bed and temperature determination is utilized to control the roasting temperature of the ore in the live bed within the preselected temperature range.

132199. Sita Prosad Banerjee. Improvements in or relating to filing systems for correspondence. A sorting cabinet wherein are provided easilv adjustable, but not easilv removable, partitions.

132200. Void.

132201. Void.

132202. Void.

132203. Void.

132204. Mara Anstalt. Press for the dehydration of sheet products. Comprises a stationary internal hollow cylinder subdivided in radial sectors and having on its exterior longitudinal extracting canals, an external coaxial permeable cylinder rotating against the mouth of said canals, three pressing cylinders and two felt conveyors stretched on guide rollers.

132205. K. Tomizawa. Buffer means between link and shoe plate in a crawler. Comprising a shoe plate, link means mechanically coupled to said shoe plate resilient deformable buffer means arranged between said link means, and said shoe plate and means for compressively coupling said link to said shoe plate through said resilient means.

132206. Maschinenfabrik Rieter A.G. A method of producing an even, continuous strand of fibres from a continuous stream of fibre flocks and apparatus therefor. (October 14, 1970). Wherein the pressurized drop acting on each flock column is controlled in accordance with deviations from a pre-set weight as measured in a fibre strand delivered from a chute.

132207. Maschinenfabrik Rieter A. G. A spindle attachement for ring spinning and ring twisting spindles. (November 19, 1970). Characterised in that the shaft length is two third to three times the shaft diameter whilst the length of the engaging head is 1-1/2 to 4 times greater than the shaft length.

132208. Maschinenfabrik Rieter A. G. Forming of a sliver from a fibre web produced in a card. (December 11, 1970). Wherein the web immediately after it has been taken off, is initially subjected to a pre-condensing action and then fully condensing the precondensed web in a sliver condenser into a sliver.

132209. Void.

132210. Maschinenfabrik Rieter A. G. An apparatus for collectively removing and mounting a plurality of cops or tubes placed on spindles in ring-spinning and ring-twisting machines. (December 17, 1970). Comprises a vertically movable support extending over the spindles and having projecting stops and a hose section supported along a side remote from the stops and which can be deformed under pressure to grips cops on tubes.

132211. Maschinenfabrik Rieter A. G. Apparatus for doffing full bobbins and donning tubes on ring spinning and ring twisting machines. (April 19, 1971). Characterised in that support rail is movably suspended on pivoting arms rigidly connected with movable vertical rods, means for pivoting gripping elements are provided for rotating vertical rods, full bobbin dump is provided with a transporting mechanism.

132212. Societe Fives Lille-Cail. Centrifugal air separator. Characterised in that it comprises a cap-shaped member acting as a first deflector and an air admission conduit which opens out below the deflector.

132213. Void.

132214. Sherritt Gordon Mines Limited. Sampling device for multiple hearth furnace. (August 4, 1970). Comprises an elongated tubular member of substantially constant internal transverse configuration throughout its length.

132215. Sherritt Gordon Mines Limited. Electrostatic precipitator and gas sampling system. (August 4, 1970). Comprising a closed housing with electrically conductive side walls and internally divided into separate ionization and collector chamber.

132216. Sealed Power Corporation. Improvements in the manufacture of spacer-expanders. (May 11, 1971). Comprising method and machine for making spacer-expander adapted to be used with one or two metallic vails of a piston oil ring assembly of an internal combustion engine.

132217. Farbwerke Hoechst Aktiengesellschaft vormals Meister Lucius & Bruning. Process for the fixation of dyestuffs on textile materials of flat structure and sheets of films. Applying an organic high boiling compound on textile material and then the said material is treated by means of electromagnetic waves.

132218. Abildgaard Laboratories, Inc. An uncased book and a method of forming such book. Comprises a plurality of sheets binding means for binding said sheets and end leaf together pressure sensitive material and release paper covering said pressure sensitive material.

132219. Vladimir Valerianovich Benderovsky, Alexander Ivanovich Schepotiev, Igor Alexandrovich Yastrebov and Viktoria Mekhailovna Kotenko. Mechanism for transportation of an information carrier. Wherein driving motor is a hydraulic one and operatively connected with the other one other reels by means of at least two independent driving paths having substantially different respective transmission ratio, paths being associated with driving motor and being selectively completed to drive other reels.

132220. Void.

132221. Farbwerke Hoechst Aktiengesellschaft vormals Meister Lucius & Bruning. Process for the manufacture of fluorine-containing polymers. Comprises carrying out the polymerisation at 0 to 25 atm. gauge and 0 to100°C in an acid medium using acids of manganese, the salt or compounds of managanese capable of forming acids of manganese under the reaction condition as catalyst.

132222. Brohigbu, Ltd. Fine grading device for rubber tire road grader. Comprises elongated blade means, elongated rotary auger means with axis of rotation parallel to blade means, automatically actuated control means, pivotal support means supporting blade and rotary auger means and actuator means.

132223. Void.

132224. Void.

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132225. Hundraj Manghanmal Balani. Improvement in or relating to electric water heater. Comprising one perforated stainless steel cylindrical live electrode surrounded by another bigger stainless steel perforated cup shaped electrode connected to the neutral line of a.c. mains.

132226. Birla Research Institute for Applied Science. A process for the preparation of dissolving grade pulp from eucalyptus hybrid wood. Characterised in that Glauber's salt is used for the prehydrolysis of the wood chips and the heated chips are subjected to alkaline or kraft cooking.

132227. Sandoz Ltd. Novel process for dyeing paper. Applying to the paper in sheet form or prior to sheet formation, to a copper complex azo dye of the specified formula.

132228. Sandoz Ltd. Process for the production of opaque crystalline mouldings by the combined injection and blow moulding technique. Polyethylene terephthalates whose acid component consists to at least 96 mol.% of terephthalic acid radicals and whose diol component to at least 96 mol.% of ethylene glycol radicals and which have an intrinsic viscocity of at least 0.75 d 1/g and a crystallising temperature not higher than 150%C is used.

132229. Void.

132230. Miller Printing Machinery Co. Apparatus for feeding sheets to a sheet fed printing press. Comprises a feedboard, a rotatable cylinder and pairs of feed rolls mounted adjacent the delivery end of the feed board, each said pair having a driven roll, a feed roll drive shaft and a cam member rotatable in timed relation with said rotatable cylinder.

132231. C. van der Lely N. V. Rotary harrows. Each tine includes a soil working portion that extends upwardly from the free end or tip thereof and whose longitudinal axis included to the vertical during use of the harrow and at least part of the length of each soil working portion is of increasing cross-section area from bottom to top.

132232. Universal Oil Products Company. Improved process for removal of selected component of a gas stream by absorption. Comprises : (a) adding only a portion of lean absorbent to high pressure absorption zone and (b) adding another portion of lean absorbent to rich absorbent prior to introduction of rich absorbent to low pressure separation zone.

132233. Vereinigte Osterreichische Eisen-Und Stahlwerke Aktiengesellschaft. Water-cooled measuring probe for continuously measuring the temperature of hot liquid metal baths in great basic oxygen converters. Water-cooled measuring probe for continuously measuring the temperature of hot liquid metal baths in great basic oxygen converters at the head of which a sensing portion is joint which immerses into the metal melt and is surrounded by a releasably arranged refractory jacket, characterized in that the probe head (2) relative to part (1) of the measuring probe is bent in like a shoulder under formation of an annular floor part (8,8a; 8a′) enclosing with the longitudinal axis of the problem angle of 80—120°, preferably of 90°, and the refractory jacket (19) surrounding the sensing portion (3) encasing also the bent-in probe head (2).

132234. Vereinigte Osterreichische Eisen-Und Stahlwerke Aktiengesellschaft. Water-cooled measuring probe for measuring the temperature of hot liquid metal baths, in particular in melting or refining furnaces. Comprising an inner tube, an outer tube and a guiding tube between the inner and outer tubes a sensing portion containing a thermo couple being releasably fixed to the head of the probe and being connectable with a compensation line ending in the probe head by means of a plug connection.

132235. Uss Engineers and Consultants, Inc. Soaking pit. Comprising a mechanism for effecting movement between an open position and a closing position the mechanism comprising a stationary frame mounting a reversible drum, cable means wound on said drum and having two cable sections extending from the drum and a sheave is mounted on said frame.

132236. Imperial Chemical Industries Limited. Spirit reproducing carbon papers. (5th March 1970). [Divided out of No. 130406; ante-dated to February 27, 1971]. Comprises sheet material carrying a coating containing a substantially colourless leucauramine compound.

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132237. Council of Scientific and Industrial Research. Method of making gypsum plaster retarder. Comprises hydrolysing horns and hoofs of cattle with alkali metal hydroxide in the presence of an alkaline metal hydroxide under pressure for about an hour and then the pressure is released and the material is dried and ground.

132238. Void.

132239. Shell International Research Maatschappij N. V. Process for the preparation of substituted vinyl esters or acids of phosphorus. (July 27, 1970). Comprises reacting dichloroacetaldehyde with $Rocl_3$ and the resulting product is reacted with n-heptanol.

132240. Void.

132241. Dr. Beck & Co. AG. Process for insulating electrical conductors with heat resistant resins. Coating the conductors with especially non-linear polyester resins, which may contain amide or cyclic imide groups within the polyester chain and containing free hydroxyl groups and heating the so coated conductors to cure the resin by a cross-linking reaction.

132242. Void.

132243. Dr. Purushottam Upadhyaya. A cerebrospinal fluid shunting device. Characterised in that the flushing device comprises a silicone rubber tube housing at its proximal end a flap valve and the cardiac catheter has slits functioning as a unidirectional valve at its distal end.

132244. Dr. Purushottam Upadhyaya. A crebrospinal fluid shunting device. Characterised in that the flushing device consists of an outer silicone rubber tube housing at its proximal end a trap door valve, consisting of a silicone rubber sheet overlapping a hole in the side wall of inner smaller tube.

132245. Chief Scientist, Research & Development Organisation, Ministry of Defence. Composition for preventing misting and/or fogging of glass surfaces. Comprising an aqueous solution of a polyhydric alcohol in which is dissolved a non-ionic detergent, silicate and polyphosphate boosters, a freely water soluble disaccharide, chloride of second group metals, chelating agent and a soluble cellulose derivative.

132246. Chief Scientist. Process for preparation of high impact resin-fibre glass composite sheet material. Fibre glass, in the form of woven fabric, sprayed with a keying agent is impregnated with a resin, the fabric is laid in a matched mould, and subjected to heat and pressure at 110 to 130°C and 160 to 200 lbs/sq. in respectively, the sheets obtained ore joined with adhesive and cut in desired shapes and sizes.

132247. The Chief Scientist, in the Research & Development Organisation, Ministry of Defence. Process for preparing a fluid composition for use in preventing rusting. Comprises forming a mixture of glycerin, water and alcohol and then incorporating alkali nitrites and inorganic phosphate to it as corrosion inhibitor.

132248. Chief Scientist, Research and Development Organisation, Ministry of Defence. Corrosion inhibiting composition. Comprising a mineral oil having corporated therein a polar corrosion inhibitors.

132249. Chief Scientist, Research & Development Organisation, Ministry of Defence. Government of India, New Delhi. Process for preparing alkyl acrylates methacrylates. Process for the preparation of alkyl acrylates/methacrylates which comprises. reacting methacrylate and alcohol in the presence of acid catalyst and free radical inhibitors.

132250. Void.

132251. Void.

132252. Sandvikens Jernverks Aktiebolag. Improvements in percussion drill rods. (April 15, 1971). Comprises a rod thread and a sleeve thread, the joint being single start. both threads having straight or somewhat curved roots and crests, the flanks joining the roots and crests through curved portions. the flanks being inclined to the drill axis at an angle 25° to 40° and pitch angle of thread being 6.5° to 9°.

132253. Granges Engineering AB. A method of ingot mould casting and an arrangement for carrying out the method. Casting a metal ingot in a mould with thick end up is characterised in that the moulds first are turned to a horizontal position or somewhat past said portion where they are stopped, and in next step, the moulds are turned to vertical portion in which portion the ingots are released and drop out with part of their length down against a stationary stop member.

132254. Void.

132255. Void.

132256. Void.

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132257. Void.

132258. Dr. Chhajjuram Mansaram Bhanotra. Pharmacologically valuable preparations for use as oral contraceptive. Comprises distilled water extraction of the residue obtained after extracting dried unripe berries of Embelia ribes with solvent ether and ethyl alcohol, the filtered aqueous extract are pooled and dried and is then mixed with a powder prepared from the dried seeds of semicarpus anacardium by removing the oils from the seeds and then drying.

132259. Void.

132260. Void.

132261. Y Kato. An apparatus for medical treatment. Comprising a casing made of two or more parts adapted to enclose a major portion of the human body or the affected part thereof, a container for storing the medicament provided above casing, ducts for feeding the medicaments to the major portion of the body compressed air ducts to force medicaments under pressure a plurality of nozzles provided in the casing connecting ducts.

132262. S. H. Shah and A. N. Aria. Improvements in or relating to a locking device attached to brief-cases. Comprising a spring actuated sliding member in the tray part of the container a hinges member fixed to the rear side of the sliding member. a pair of hooks on the container lid, means for moving the sliding member to a locking position and means for keeping the container in the locked. position when the handle is moved.

132263. Osterreichisch-Amerikansche Magnesit Aktiengesellschaft. Process of producing a sintered refractory material. A major amount of chrome ore and a minor amount of magnesia or magnesium compounds yielding magnesia on firing ore fired at temperatures about 1750°C in a mixture which contains silica and lime upto predetermined upper limits and particle size.

132264. Joseph Lucas (Industries) Limited. Fault display unit for a vehicle. (August 8, 1970). Comprising a casing with aperture, plurality of translucent display panels, plurality of optical cables associated with display panels to illuminate them, plurality of indentations and legend so that illuminated lengend ore be seen.

132265. Joseph Lucas (Industries) Limited. Battery charging systems for road vehicles. (8th August 1970). Comprising three wounded field alternator vehicle battery three transistors field winding means sensitive to the battery coltage for gate current to the thyristors only.

132266. Void.

132267. Johnson & Johnson. Bonded nonwoven fabrics methods of making the same and synthetic resin binder compositions used therein. Comprising a fibrous web and synthetic resin binder areas bonding said fibrous web into non-woven, having a relatively high, uniform concentration of resin binder therein of from about 50% to about 120% by weight in the binder areas, based on the weight of the fibres therein.

132268. Johnson & Jhonson. Method of applying synthetic resin binder to porous materials. Comprising applying to the materials a composition consisting of (1) a stable colloidal aqueous resin dispersion having an alkaline pH (2) a water soluble polymeric carboxylic synthetic resin and (3) a metal amine complex co-ordination compound and substantially immediately diluting said dispersion with an aqueous medium.

132269. F. L. Smidth & Co. Rotary kiln with cooler tubes. (July 29, 1970). [Divided out of No. 117779 ante-dated to September 21, 1968]. Comprising transverse partitions provided in some or all of the conveyor flights which act as dams to the flow of the material along the said flights.

132270. Richter Gedeon Vegyeszeti Gyar R. T. Process for preparing optically active 1, 4-Benzo-Diazepin-2-one derivatives and salt thereof. Process for producing optically active 1, 3, 4, 5 tetrahydro-1, 4-benzodiazepin-2- one derivatives which comprises reacting a racemic 1, 3, 4, 5, tetrahydro-1, 4-benzodiazepin-2-one derivatives with an optically active organic acid and separating the diastereomeric salts and recovering the optical antipods.

132271. Void.

132272. Bunker Ramo Corporation. Electrical contact and conductor and method of making. Including a connector member crimped on a conductor wire the connector member being hardened by heat treatment.

132273. Barmag Barmer Maschinenfabrik Aktiengesellschaft. Traversing element. (19th April 1971). Comprising a shuttle adapted to engage a helical groove of a rotatable grooved roller a neck portion fixedly connected therewith carrying a yarn guide, and two plates arranged on the neck portion one above the other adapted to receive there between two guide rails fixedly arranged parallel to the axis of rotation of the grooved roller that plate which faces the shuttle being arranged at a level that it does not come into contact with the surface of the grooved roller.

132274. Varta Batterie AG. A container for a multi-cell storage battery and a storage battery incorporating the same. Container comprises in its lower part on end and intermediate walls in its cells, a series of spaced, inclined ribs or feathers, by which elements or groups of plates are fixed or held in position in the cells or compartments.

132275. Laszlo Pal Molnar. Improvements in or relating to manufacture of steel. Comprises the steps of subjecting the mixture of oxideous metal ore and a calculated quantity of carbon and fluxing material to a heating in a reduction furnace, feeding the discharge product in a melting furnace, removing the slag from the furnace continuously feeding the molten metal to a Bessemer converter and cooling and squeeze rooling the steel.

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132276. Decauville. A free cable winch. Comprising opposed clamps controlled by two external levers, one lever for traction, and the other for release or unwinding of the cable.

132277. Union Carbide Corporation. Primary dry cell. With the inner electrolyte composed of about a 6 normal aqueous zinc chloride solution or is an aqueous solution containing a magnesium salt selected from the group consisting of magnesium chloride, magnesium perchlorate magnesium bromide, or containing a zinc salt selected from the group consisting of zinc perchlorate and zinc bromide.

132278. Albright & Wilson Limited. Process for the preparation of granular ceramic or cermet materials. (July 31, 1970). Forming a slurry of at least one finely powdered ceramic material in an aqueous solution of a thermally decomposable water-soluble metal compound and heat drying the slurry to form granules.

132279. Girling Limited. Improvements in or relating to servo motors. (August 6, 1970). Comprises an end wall having an aperture, a housing member adapted to contain a first seal, a second seal housed between the first face of the end wall and second face of the housing member when the housing member is mechanically coupled to the end wall.

132280. Joseph Lucas (Industries) Limited. Electrical switches. (8th August 1970). Comprising a slides extending between a base and cover and carrying a roller such that during sliding of the slider between a first to a second position bridging a pair of contacts, the roller undergoes rotational movement.

132281. Void.

132282. The Lubrizol Corporation Thickened aqueous compositions containing acrylamidoalkane-sulfonate polymers useful as hydraulic fluids. Comprises—

Water	89.8%
Mineral oil	2.6%
Emulsifier	6.6%
and Polymer	1.0%

132283. Burroughs Corporation. A display device. Comprising a gas-filled envelope including an insulating base plate having a top surface, a plurality of conductive strips on the top surface of base plate, an insulating layer on strips, a group of apertures in layer each aligned with an exposing one conductive strip, a conductive member in each of apertures in direct contact with associated conductive strip, an anode electrode associated with conductive members in apertures. a glass cover plate, glass cover plate and base plate being hermetically sealed together to form envelope.

132284. Texaco Development Corporation. Process for producing lubricant containing polymeric products. Reacting alkenyl succinic anhydride with piperidine derivative in hydrocarbon lubrication oil.

132285. Takeda Chemical Industries Limited. Process for the preparation of cephalosporin derivatives. Comprises reacting corresponding cephalosporanic acid with corresponding mercaptopyridine 1-oxide.

132286. Triplex Safety Glass Company Limited. Improvements in or relating to toughened glass sheets. (July 29, 1970). A method of producing a toughened glass sheet of thickness in the range 1.8 mm to 4 mm having a dual fracture characteristic, comprising heating a sheet of glass to a temperature near to its softening point, exposing the surface of the hot glass sheet to gaseous chilling medium and maintaining against the glass surface a rate of flow of the gaseous chilling medium dependent on the glass thickness, which rate is just sufficient to give a selected heat transfer coefficient with respect to the glass in the range bounded by from 0.008, 0.02 calories. cm^{-2}. °C-1. sec.-1 for 1.8 mm glass and from 0.006, to 0.009 calories. cm^{-2}. °C-1. sec.-1 for 4 mm glass, thereby producing in the glass of from 260 kg./cm^2 to 470 kg/cm^2 for 1.8 mm glass reducing to from 210 kg cm^2 to 330 kg/cm^2 for 4 mm glass.

132287. Ims Limited. An imperforate, flexible, non-permeable bag. Containing a vial and a vial injector in an aseptic condition before opening bag having heat seals in lengthwise edges, having a slit in a lengthwise edge near an end thereof, the interior of said bag being separated from said slit by a seal.

132288. Monsanto Company. Isopropylidineaminoethanol salt of p-nitrobenzene-sulfonylurea and process for its preparation. [Divided out of No. 125988; ante dated to 30th March, 1970]. Reacting p-nirobenzene sulphonyl urea or isourea with ethanolamine and the product thus formed is reacted with acetone.

132289. Budapesti Radiotechnikai Gyár. Collinear aerial. Characterized by one or more dipoles being excited off the tappings of a coaxial transmission line, the one arm of which dipole is represented by a conducting element on the transmission line, having the approximate length of half a wave, with the other arm of the dipole being represented by that section of the outer conducting element of the coaxial transmission line, which is bordered by two first-mentioned dipole arms.

132290. Merrick Scale Mfg. Company. A weight determining system. Comprising a load support a torsional member supporting said support, first means connected to torsional member, second means rotatably supported by first means third means flexibly connected to the second means, an electrical phase sensitive network, fourth means arranged to adjust speed of rotation of third means and fifth means actuated by third means.

July 29

132291. Void.

132292. Stamicarbon N. V. Process of making a milk coagulating enzyme preparation. Mucor lamprospoius is cultivated in a culture medium.

132293. Stamicarbon N. V. Process for the preparation of 4-oxocapronitrile. Reacting acrylonitrile with at least 3 moles of acetone per mole of acrylonitrile in a liquid medium in the presence of an acid on an acidic compound and a schiff base having a boiling point below 150°C.

132294. Uss Engineers and Consultants, Inc. Guide mechanism for oscillating continuous casting mold. Including a stationary outer frame mounting a vertically movable inner frame carrying a mold. a cam mechanism, an improved guide mechanism with a pair of V-shaped rails having bearing surfaces.

132295. Philip Morris Incorporated. Process for puffing tobacco. By contacting tobacco with an ammoniacal material.

132296. Inventa AG Fur Forschung Und Patentverwertung. Process for the preparation of ester oils. Process for the preparation of synthetic ester oils with lubricating oil properties, characterised in that mixtures of acids which are obtained as by-product in the oxidation of a cycloalkane with oxygen to give cyclo-alkanol/-one are esterified with polyvalent primary alcohols and branched monoalcohols.

132297. Metallgesellschaft A. G. Apparatus for feeding green pellets to travelling grate installation. A conveyor unit comprising at least one belt conveyor, a further belt conveyor movable on the wheels at right angles to the direction of travel of the pellets on the said belt conveyor and which conveyor moves the pellets at right angles to the direction of travel of the pellets or the belt conveyor and a stationary belt conveyor which feeds the said belt conveyor which is movable on the wheels.

132298. Sandoz Ltd. Process for the production of 1, 2, 3-trithiane compounds. (31st July, 1970). Characterized by reacting 1, 3-dimercapto-2-dimethyl amino propanel with sulphur dichloride.

132299. Deering Milliken Research Corporation. A drafting cradle [Divided out of No. 125728; ante-dated to 13th March, 1970]. Comprising a pair of apron guiding elements, two walls members with elongated notches, one of the apron guiding elements engaging each of the notches.

132300. Weill & Reineke G.m.b.H. Process and device to manufacture large webs or sheets of synthetic foil material from extruded strips joined together along their edges. The strips are deposited on the supporting device the supporting device is indexed longitudinally of the foil or sheet a distance corresponding to the width of one strip.

132301. Void.

132302. Sincat Societa Industrials Catanese S.p.A. Process for the preparation of hydraulic brake fluid containing monoalkyl ethers or polyoxyalkylene glycols. A mixture of ethylene oxides and propylene oxides is reacted with a monoalkyl ether of diethylene glycol and the product indiluted with an alkoxy triglycol.

July 30

132303. Void.

132304. Void.

132305. The Firestone Tire & Rubber Company. Process for preparing colorless, high-vinyl diene polymers. The solution polymerisation of a conjugated diene is carried out with an alkali metal hydrocarbon catalyst and in the presence of dimethylether.

132306. Girling Limited. Improvements in or relating to discbrakes. (August 7, 1970). Characterised in that the pins are radially resiliently compressible.

132307. Joseph Lucas (Industries) Limited. Electrical switches. (August 11. 1970). Containing a cover, a base, a pivot post, rotor, contact plate, flat portion, and a set of fixed contacts and pair of wings.

132308. Imperial Chemical Industries Limited. Process for making heterogeneous polymer particles. (August 10, 1970). Polymerising a monomer B in solution in air organic liquid in the presence of a stable dispersion of particles of polymer A, monomer B producing a polymer B which is insoluble in the organic liquid and incompatible with polymer A and also monomer B swelling polymer A by at least 10 per cent by weight and the particles of polymer A containing an initiator or catalyst for the polymerization of monomer B.

132309. Hindustan Lever Limited. A process for preparing an instant tea powder. (July 30, 1971). A process for preparing an instant tea powder which will rehydrate to a green tea beverage comprising heating the fresh tea leaf to a temperature sufficient to inactivate the enzymes therein, comminuting the enzyme-inactivated leaf, extracting the comminuted leaf with hot water and drying the extract to obtained by conventional means such as spray drying or freeze drying.

132310. Hindustan Lever Limited. Process for interesterifying glycoride oils. Comprises heating the oil in the presence of an alkali metal interesterification catalyst and an aprotic solvent.

132311. Compagnie Pechiney. Flame guard for the electrode economiser of electric arc furnaces. A flame guard comprising an array of sectors each sector comprising a central member defined by two surfaces formed by frustoconical segments of revolution about the axis of the electrode, flanked on one side by an upper sidewing and on its other side by a frustoconical lower side wing.

July 31

132312. Joseph Lucas (Industries) Limited. Starting systems for road vehicles. (19th August, 1970). Comprises in combination a battery a starter motor, a pair of solenoid contacts, the solenoid including a pull in winding and a hold-in winding, wherein the pull-in winding over-lays the hold in winding.

132313. Dunlop Holdings Limited. Improvements in or relating to articles having a reinforcement structures. Comprising a reinforcing layer formed from at least one reinforcing strip each reinforcing strip comprising a plurality of longitudinally extending reinforcing filaments affixed to a carrier strip.

132314. Void.

132315. Void.

132316. Void.

132317. Void.

August 2

132318. Ahmedabad Textile Industry's Research Association. A wrap tension regulator for non-automatic looms. Comprises a pair of floating brake bands with brake linings said bands being hinged to each other at one end, the free end of the upper band being loaded by a spring lever means connecting said springs at one end and sensing means at its other.

132319. Void.

132320. James Miller Pedersen. Controllable pitch propeller. Comprises a hollow hub with blades mounted in it, which is secured to a tailshaft, a shaft, means slidably adapted within the bore, means to equalize the forces on the first means to apply one of the forces hydraulically, means responsive to the movement of the first means to cause the piston, shaft and cross head to move axially and means responsive to the movements of the cross-head.

132321. RCA Corporation Semi-conductor devices. Characterised by a semiconductor body of one conductivity type having a surface a first semiconductor region of an opposite conductivity type extending into body from surface, a planar P N junction between body and first region, junction forming a radial curvature and extending to surface, a second semiconductor region of one conductivity type extending into first region short of junction a third semiconductor region of opposite conductivity type extending into body from surface to at least about P N junction and wherein third region intersect radial curvature and surrounds first region.

132322. Dulmison (Australia) Pty. Limited. Vibration damper for cables. (August 7, 1970). Comprises one weight of right cylinderical shape in combination with mother removably attachable weight on the outside of said elongated weight.

132323. Bayer Aktiengesellschaft formerly known as Farbenfabriken Bayer Aktiengesellschaft. Production of cyclo copolymers. Characterised in co-polymerising compounds like maleic acid anydride with compounds like allyl alcohol in equimolar amounts.

132324. The Battelle Development Corporation. A method of making dense metal articles. [Divided out of No. 123976; ante-dated to November 10, 1968]. Characterised by exposing said compact to a reducing environment consisting of a reducing gas consisting of one of the group of carbon monoxide or a mixture of carbon monoxide and hydrogen at a temperature that is below the sublimation as melting temperatures of the metal and metal compound and above the vaporisation or decomposition temperatures of all non-metal compounds present.

132325. Indulal Parekh. Three phase induction motor unit compensated for reduced supply voltage. Comprising starter and transfer conductors and four relay namely voltmonitor, retrophaser, zerophaser and thermonitor each operating in response to one of the parameters of the supply.

132326. Void.

132327. Council of Scientific and Industrial Research. Light weight clay bricks, blocks and tiles for insulation and multistoreyed constructions. Characterised in that polystyrene foamed beads thoroughly mixed with ground clay before moulding whereby upon fixing the heads are gasefied having behind a cellular structure inside fixed products.

132328. Council of Scientific and Industrial Research. A precisely controlled wide-angle uniformly spraying device. Two coaxial tubes, one inside the other of which the inner contains the fluid to be sprayed and the outer the compressed air each ending into a multinozle spherical outlet whose design is such that the compressed air particles coming out of the out let pick up just the sufficient amount of the fluid (to be sprayed) so as to cover the base area of the required size in the natural surface.

132329. Void.

132330. Council of Scientific and Industrial Research. Structural rod/flat bonding device. Comprising a horizontal and rectangular base plate on which are secured two dies and a threaded pivot of a linkage consisting of driving rod, pivoted bar and spring operated and fork shaped driven rod.

132331. Vladimir Valorianovich Bendorovsky, Igor Alexandr Ivanovich Schepotiev, Viktor Mikhailovich Kornoichuk Oleg-Mikhailovich Vergiliev and Alexi Petrovich Iysenko. Mechanism for transportation of an information carrier. Characterised in that the driving motor is a hydraulic motor connected operatively with one of the spools, the hydraulic supply conduit of said motor includes a metering valve, the valve being controlled by a gauge.

132332. Vsesojuzny nauchno-Issledovatelsky i proektnokonstruktorsky institut metallurgicheskogo mashinostroeniya. A plant for the continuous casting of metal Characterised by a wedge for detaching ingot from endless belt mounted in front of secondary cooling device and a transfer gear of the secondary cooling device for holding ingot tight to the mould.

132333. Void.

132334. Badische Anilin & Soda-Fabrik Aktiengesellschaft. Process for the preparation of substituted uracils. Comprises reacting uracil with R^4X in presence of hydrogen halide binding compound, R^4 being crotonyl or 8-C-atom acyl group substituted by chlorine atoms.

132335. Asterion Limited. A process for preparing a polyurethane composition. (August 3, 1970). A process for preparing a rigid substantially homogeneous polyurethane composition which comprises reacting in a single step a polyisocyanate with an aliphatic polyol containing from 4 to 5 hydroxyl groups and an average of not more than 1.5 ether linkages per reactive hydroxy group, the isocyanate and the polyol being at the start of the reaction in homogeneous liquid phase admixture with a hydrocarbon having aromatic character and boiling not lower than 110°C, the wéight ratio of hydrocarbon to reactants being in the range 1:10 to 11:9.

132336. Void.

132337. Voltas Limited. Power transfer assembly for transfering power from the flywheel of an engine to a drive shaft. Comprising a first coupling plate secured to drive shaft. a second coupling plate rigidly connectable to the flywheel and provided with slots disposed coaxially to the drive shaft into each slot projecting a positioning member.

132338. Voltas Limited. A high pressure duplex and pump. Comprising one or more cylinder chambers each chamber being provided with a piston assembly slidably disposed therein with the piston rod thereof projecting through corresponding apertures provided in a stuffing box.

132339. Ugine Kuhlmann. A process for the preparation of zirconium alloys. (May 19, 1971). 0.5 to 4% copper and 0 to 4.5% hafnium are added to zirconium in the molten condition to make an alloy.

132340. Dowty Hydraulic Units Limited. Gearing and lubricating means therefor. Comprises, at least two meshing toothed or lobed rotors having shafts supported in bush means at least at one side of the rotors, grooving in cylinderical wall of each bore in bush means and passageway means through the bush means.

132341. Sandoz Ltd. Process for the production of anthraquinone dyestuff compounds. Reacting appropriately substituted anthraquinone with moumols of appropriately substituted amine followed by oxidation and sulphonation.

132342. Sandoz Ltd. Process for the production of alkylated N, N'-diphenyloxamides. Alkylating in the presence of sulfuric acid 1 mole of the corresponding N-N'-diphenyl oxamides with 1 to 4 moles of an olefin containing 3 to 20 carbon atoms or a secondary or tertiary alcohol.

132343. Void.

132344. A. B Krishnaswamy. An improved starting block footrest for athletes, particularly runners. Comprises a pair of rails having slots, the rails being attached together by transverse members, at least two spikes and two foot pads engaged with the slot.

132345. G. S. N. Panickar. Improvements in or relating to cycle rickshaws. Comprising two rear wheals mounted on freewheels on framework, a shaft spaced from free-wheels with three sprockets, outer two coupled with freedheels by chains and the central to drive sprocket, seat being fitted on springs.

132346. Void.

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132347. Void.

132348. Void.

132349. British Leyland Truck and Bus Division Limited., (formerly Leyland Motors Limited). (5th August, 1970). Comprising a pair of bogie brackets adapted for mounting with one bracket on each side of a vehicle chasis, on a common axis perpendicular to the fore-and-aft axis of the vehicle.

132350. Void.

132351. Uss Engineers and Consultants. Inc. Billet marking apparatus and method of marking. Comprising a marking device having a marking member on one blade of the stationary blade and the movable blade, the marking member being operable by relative movement between the stationary blade and movable blades to shear the longitudinal member into billet to mark.

132352. Void.

132353. Promod Ranjan Roy. Wireless electronic equipment for measuring and controlling temperature in mines, godowns and/or other underground structures. Comprising a transmitter and a controlling unit the transmitter including a balanced electrical bridge, one of the ovens of the bridge is constituted by a temperature responsive means and across the diagonal of the bridge there is connected a moving coil indicator pairing an adjustable temperature setter, the setter on coinciding with a moving coil pointer of the indicator, being adopted to close the contact of a circuit, which circuit form part of the transmitter and container a converter to produce built in signals, a modulated amplifier, a radio friquency oscillator.

132354. K. K. Xaxier. A pressure cooker with better heat flow and reserve conditions. An air temperature fusible plug preferably of alloy of eutectic composition with a sharp melting temperature above the maximum temperature of the cooker. An external lining for the cooker body, an insulation muff enclosed by a sheet metal casing.

132355. Farbwerke Hoechst Aktiengesellschaft vormals Meister Lucius & Bruning. Process for the preparation of water-soluble mono-azo dyestuffs. Characterized by coupling the diazonium salt of 3-aminobenzenesulfonic acid-N'-methyl-N''-β-(β-hydroxy-ethyl-sulfonyl)-ethyamide with 1-naphthol-3-6-disulfonic acid.

132356. Siemens Aktiengesellschaft. Improvements in or relating to phase modulators. (March 17, 1971). Comprises a primary portion of a centre-tapped auto-transformer having elements connected accross its ends, at least one of capacitance elements being varactor diode the centre tap of auto-transformer being connected to a shunt arm containing a resistor and the tapping of autotransformer which define primary portion being symmetrically disposed about centre tap.

132357. Siemens Aktiegesellschaft. Improvements in or relating to digital filters. (May 17, 1971). A digital filter having a frequency characteristic corresponding to that of a given basic analogue-signal filter circuit configuration, wherein any reactive two-terminal elements of said Basic filter circuit being formed by respective single-port circuits with predetermined delay characteristics, any line elements of said basic filter circuit formed by respective multi-port circuits each having two ports with predetermined delay characteristics, any non-reactive two-terminal elements of said basic filter circuit being formed by respective single port circuits with no delay, and any non-reactive multiple elements of said basic filter circuit being formed respective multi-port circuits with no delay, said single-port circuits and multi-port circuits being interconnected to correspond to the configuration of said basic filter circuit by one or more adapters which provide impedance matching between the individual ports.

132358. Fichtel & Sachs Aktiengesellschaft. Improvements in clutch units, more particularly for large diameter dry friction clutches. Wherein the pressure ring, viewed in cross-section along the clutch axis, has a substantially U-shaped cross-section with a web carrying a friction lining for contact with the clutch plate and two legs axially extending away from the drive plate are interconnected by substantially radially extending ribs.

132359. A. G. Petzetakis. Connector for pipes. [Addition to No. 130772] Characterising in providing a half cylindrical half shell on each connecting part, and the reverse half cyclindrical coupling parts to be laid on to the half shell of other connecting part disposed in the direction to the pipe.

132360. Gosudarstenny Vsesojuzny Nauchno-Issledovatelsky Institut Stroitelnykh Materialov i konstruktsy, Moskovakaya oblast poselok Kraskovo. Method of hydrothermal treatment of cellular concrete products. Characterized in raising the temperature and pressure of the autoclave to 100-110°C and 1-1.46 kgf/cm^2 respectively, filling the autoclave with saturated steam, increasing the temperature and pressure to the maximum after reacting a thrashold of 65-70°C in the middle of the product.

132361. Void.

132362. Void.

132363. Void.

132364. Void.

132365. The Dow Chemical Company. A process for preparing sulfinyl-or sulfonyl-pyridine compounds. Comprises oxidising appropriately substituted thiopyridine and converting, if necessary, the acid into its salt.

132366. Aktieselskabet De Danske Sukkerfabrikker, Lixiviating apparatus. The first device for removing liquid by pressing consists of a lower rotatable cylinder connected with a driving means and having a cylinder wall previous to liquid and rotatable pressure cylinder co-operating with said lower cylinder.

132367. Pilkington Brothers Limited. Improvements in or relating to liquid fuel burners. (August 4, 1970). Comprising a mixing chamber, a throat communicating with it, means to inject a jet of liquid fuel into it, means to introduce a primary atomising gas tangentially into the mixing chamber to produce a swirt of primary gas are annular chamber disposed around the throat and having an outlet in the axial region and means to introduce a flow of secondary atomising gas tangentially into the annular chamber to produce a swirl of secondary gas.

132368. Kanegafuchi Kagaku Kogyo Kabushiki Kaisha. Process for the microbial production of lysine and isoltucine. Comprising cultivating a threonone resistant mutant of Arthrobacter alkanicus under aerobic conditions in aqueous nutrient medium containing assimilable carbon sources.

August 4

132369. Luis Sentis Anfruns. Knitting Machine and method for making toe pieces for hosiery. A knitting machine for making toe pieces for hosiery with individual sheaths for different toes, the machine comprising two knitting heads each having a row of needles; and a neddle selector operable to select set groups of needles when it is desired to knit corresponding sheaths of the toe piece.

132370. Pfizer Inc. Process for the production of amines. Comprising reducing cyanobenzylamine and alkylating the resulting amine.

132371. Void.

132372. Bayer Aktiengesellschaft formerly known as Farbenfabriken Bayer Aktiengesellschaft. Process for the preparation of 2-Arylimino-thiazolidines. A halogen atom or a sulphonic acid radical is cyclised by intra molecular condensation optionally in the presence of a strong acid resulting from the process being transferred into a salt thereof by addition of a suitable acid.

132373. W. J. Harris (Birmingham) Limited. Improvements in or relating to drawings and dividing compasses. wherein the holder is separate from other leg and is formed with a slot in which is received a portion of the leg whose length extends transversely with respect to the depth of the slot the bottom of the slot and the face of portion of the leg opposed to bottom are formed to provide clamping surfaces between which a marking device or spike may be located, and the leg carrier means fos engaging and adjusting the holder relatively to the leg to clamp the marking device or spike between the two clamping surfaces.

132374. Void.

132375. Void.

132376. C. Conradty. An anode for an amalgam high load cell. (May 10, 1971). Graphite plates are set transversely to the direction of flow of the mercury cathode, corresponding in their length to the width of the cathode and having on their under-side comblike slots, said graphite plates carrying on their upper side flush mounted contact fuses made of anodically resistant material and with interposition of trough shaped fellows assemblies of corrosion resistant elastomer, are connected to power distributor rails with interposition of a sheet metal trough made from valve metal.

132377. Void.

132378. Universal Electric Company. Improvements relating to shaded pole electric motors. (May 5, 1971). Stator is having a plurality of generally radially inwardly extending poles each of which has a neck portion of lesser circumferential extent than the radially innermost end of said pole, main winding being wound around the neck portion; and the shaded pole slot is extending from the innermost end of a pole and circumferentially spaced from the neck portion.

132379. N. V. Philips. Gloeilampenfabrieken. Method of establishing relatively insulation connections between conductor ends and an insulating substrate. Comprising that the substrate surface to which the conductor ends name to be secured is provided with a metal coating, the conductor ends are mechanically secured to the metalized substrate, surface in an electrically conductive manner, and the metalized substrate surface is subjected to a process attaching the metal coating so that the substrate metal located between the conductor ends is removed.

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132380. Asim Kumar Goswami. Improvements in incandescent kerosine oil lamp. [Addition to No. 102988]. The top outer perforated cylinder according to the parent patent being modified by a perforated cover which is shaped like "frustum of a cone".

132381. Void.

132382. Marshall's Tea Machinery Company Limited, Tea drying apparatus and method of at least partially drying tea. (August 7, 1970). Tea drying apparatus comprising an air pervious leaf conveying surface, means for moving the conveying surface from an inlet of the apparatus to an outlet of the apparatus, a first air duct disposed at least in part above the conveying surface and terminating close thereto. an air heater and means to move heated air through the deduct and downwardly through the conveying surface.

132383. Girling Limited. Fluid pressure operated braking device for vehicles incorporating internal shoe-drum brakes. (August 8, 1970). Brake shoes are separated to apply the brake by a wedge actuated by two piston arranged in tandem in a cylinder and individually acted upon by pressure fluid derived from two separate sources.

132384. The Dow Chemical Company. Process for converting an aliphatic nitrile to the corresponding amide. Characterized by contacting the nitrile in presence of water with a catalyst containing from 10 to 99% by weight of at least one oxide of copper, silver, zinc or cadmium and from 1 to 90% by weight of at least one oxide of chromium or molybdenum.

132385. The Dow Chemical Company. Process for converting a nitrile to the corresponding amide. Characterized by contacting the nitrile with a cupreous catalyst comprising reduced copper oxide at 0 to 400°C in liquid phase.

132386. Voltas Limited. A valve for use in a valve seat assembly and a valve seat assembly provided with said valve. Comprises an upper guide pest and a lower guide post adapted to be supported in bearings for axial movement, a spine portion integral with said posts and a preshaped valve ring coaxially disposed on said spine portion.

132387. Voltas Limited. A drilling tower. Comprises a lower most structure pivotally mounted on a base platform, an upper most structure mounted on said lower most structure and provided with a crown block assembly suspending therefrom a load carrying block, a non-rotatable mudswivel connectable to a rotary chuck and drill assembly.

132388. Voltas Limited. A semi-automatic chuck assembly. Comprises a cylindrical chamber with annaxial orifice for drive rod, coaxially located chuck jaw pairs, an operating lever, adjacent chuck jaws having teeth with opposite biting angles, taper guides and tapered sliding face adjacent a collar pin.

132389. Voltas Limited. An improved piston assembly. Comprises a piston cup mounted coaxially on a piston rod and consisting of a metal piston body having circumferential recess locating therein a neoprene ring.

132390. Nippen Kayaku Co. Ltd. Method of producing reactive authraquinone dyestuffs. Characterized by reacting the dyestuffs obtained by condensation of 1-amino-4-bromo anthraquinone-2-sulfonic acid and 2, 6-xylidine, with N-methylolchloroacetyl-glycinamide.

132391. Siemens Aktiengesellschaft. An electrical machine arrangement for providing constant excitation current for a brushless, variable-speed, synchronous machine. Comprising an induction exciter, the rotor winding of which is connected to the rotor winding of the synchronous machine through rectifier means and the stator winding of the exciter is connected to supply system through impedance.

132392. Siemens Aktiengesellschaft. Improvements in or relating to strip-line y-circulators. (March 22, 1971). Two y-circulators are coupled together via coupling line, each circulator comprising a three-armed strip-line junction arranged between two ferrite plates within a constant magnetic field.

132393. Transformatoren Union Aktiengesellschaft. Protective appliance for liquid-cooled electric apparatus, especially transformers and choke coils. (May 18, 1971). Floats are freely displaceable on a vertical guide rod passing through them and as contact device there serve protective gas switches actuated by permanent magnets.

132394. Gruzinsky Politecknichesky Institut Imeni V. i. Lenina. Tea leaf roller. Cylinder has a tubular discharge installed concentrically inside of the cylinder, with a provision for moving jointly with the cylinder, the lower part of the discharger being made in the form of a belt mouth directed towards the table.

132395. Kanakku Sankara Pillai Madhavan Pillai. Extraction, concentration and preservation of the sour principle from the fruits of "tamarindus indica". Characterizes in subjecting the clarified tamarind extract to bleeching by liquid or gaseous sulfurs dioxide then it is vacuum evaporated to a semi solid state and then the same being fortified with vinigar or glucial acetic acid.

132396. Chief Scientist, Research and Development Organisation. Process for the preparation of carbene rubber adduct. Comprises reacting aqueous solution of caustic alkalies with chloroform, bromoform, bromodiffuoromethane or chlorodifluromethane in suspension/solution of natural rubber or synthetic rubber or rubbers polymers in an organic phase in presence of catalytic amounts of carbene transfer agent.

132397. Chief Scientist, Research & Development Organisation. Ministry of Defence, Government of India. Process for preparation of an adhesive for bonding. Comprises (i) masticating synthetic rubber, zinc oxide, calcium silicate and lamp black and forming homogeneous sheet; (ii) dissolving phenol formaldehyde resin in toluene out of 50 per cent of the solvent mixture of toluene, methyl-ethyl ketone and ethyl acetate mixture and adding to it magnesium oxide and adding rest of methyl ethyl katone and ethyl acetate under stirring (iii) cutting the sheet of step (i) into bits and soaking them in the removing solvent mixture in a sigma type of mixes and (iv) homogenizing the product of (ii) and (iii) in the mixer.

132398. Chief Scientists, Research and Development Organisation, Ministry of Defence, Government of India. Corrosion inhibiting composition. Comprising a light viscosity mineral oil fortified with polar corrosion inhibitor.

132399. Void.

132400. Chief Scientist, Research and Development Organisation, Ministry of Defence, Government of India. Inhibitor composition. Comprising a cutting oil emulsion and mixture of inorganic nitrate and alkali silicate wherein for each part of inorganic nitrate 1 to 30 parts of alkali silicate is used.

132401. Void.

132402. Void.

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132403. Void.

132404. Void.

132405. Donn George Boyle and Robert Otto Osborn. Flexible tubing particularly for irrigation systems. Comprising at least two superposed flexible webs heat-bonded and sealed together along their longitudinal edges, at least one of the webs being of a fibrous structure.

132406. Void.

132407. Void.

132408. The Secretary of State for Defence in her Britannic Majesty's Government of the United Kingdom of Great Britain and Northern Ireland. Improvements in or relating to apparatus for the construction of bridges. (August 13 1970). Incorporating piers pivotally connected to a transverse structure for articulation in a plane transverse to the bridge, the angles between the piers and the transverse structure being normally maintained at predetermined value by hydraulic articulators.

132409. Siemens. Aktiengesellschaft. An apparatus for controlling a line-commutated current converter. Comprising a phase filter including harmonic-free two-phase generator, proportional plus integal action controller to generator means for forming signal, vector rotator and a device connected to receive the signal.

132410. Parks-Gramer Company. Textile yarn forming machine data communicating an apparatus. Comprises encoding and transmitting means moving with travelling unit, receiving and processing means.

132411. Parks-Gramer Company. Yarns piecing apparatus. Comprises means for monitoring at least one operation thereof and for encoding a signal indicative of the cause of failure of the monitored operation, means for communicating encoded signals from the piecing apparatus and means for decoding communicated signals.

132412. Kurgansky Zavod Medpreparatov. Culture medium for production of hydroxytetracycline. Comprises mixing corn meal with water adding enzyme, oryzin or a culture of Aspergillus orison, sterilizing it; preparing a suspension of corn steep liquor, with calcium carbonate and hot water, heating the suspension and the cooling, preparing a suspension of ammonium sulfate, calcium carbonate and hot water and sterilizing it; placing the three suspensions in a fermentation tank for carrying and the fermentation.

132413. Void.

132414. F. A. Chasmawala. Spring action spectacle frames. The spectacles sides or arms are each flexible and are made of materials like celloloid or plastics reinforced by a thin strip of metal which compresses a number of thin cylindrical metallic member embedded transversely inside the arm aling the direction of its width and the strip passes inside the arm material through successive slots or holes in the cylindrical members.

132415. Pennsylvania Engineering Corporation. Continuous casting machine. Comprising withdrawal means for withdrawing partially solidified metal from mold, oscillating means to prevent metal adherence to mold, first control means to control withdrawal speed, second control means to control mold oscillation speed, and adjustment means for simultaneously adjusting withdrawal speed and mold oscillation.

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132416. Void.

132417. Nedschroef Octrooi Maatschappij N. V. A method for manufacturing by deformation a self locking metal nut. Wherein the nut is provided with a normal internal screw thread at the end. uniformly pressing inwardly without distortion of the screw thread profile to provide a screw thread portion of reduced diameter.

132418. Joseph Lucas (Industries) Limited. Elecetrical switches. (August 19, 1970). Rotor is movable from an off position to a first position wherein movable contact engages a first fixed contact to complete a first circuit and movable from first position to a second position wherein the movable contact engages a second fixed contact to complete a second circuit, and therein the movable contact is prevented from engaging the first fixed contact during return movement of the rotor.

132419. Void.

132420. Void.

132421. Imperial Chemical Industries Limited. Process of producing polymer coating on glass fibres. Comprises applying a dispersion of film forming polymer in an organic liquid in which the polymer in soluble the dispersion having been prepared by polymerizing a monomer in solution in an organic liquid in presence of a stabiliser of a block or graft copolymer containing one type being solvated and the other being non-solvated and associated with polymer and removing the organic liquid from the fibre.

132422. Rama Shanker Bajoria. A bucket having a locking device and made of a thermo-plastic material. A bucket with a locking device, this locking device comprising two locking tabs provided with the lid of the bucket, receptive means provided on the bucket for engineering locking tabs.

132423. Council of Scientific and Industrial Research. An electrolytic process for integral colour anodising of aluminium and its alloys. Comprises using a bath containing 5-sulphosalicylic acid, formic acid, citric acid or tartaric acid and pyrogallol or pyrocatechol or para-aminophenol or metol or boric acid and water.

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132424. Shanmugasundram Venkatesan. Precast prestressed concrete beamslotted in web portion. Comprising a reinforced content concrete shear member sloted in the web portion which acts as compression member when the beam is not loaded and as tension member when the beam is loaded (the slab load being increased slowly).

132425. Void.

132426. Brico Engineering Limited. Fuel injection system. Wherein means are provided for preventing the supply of direct current of incorrect polarity to electronic control unit.

132427. Brico Engineering Limited. Fuel injection systems. Comprising at least one electromagnetically operable fuel injection valve, a pulse generator circuit, trigger means arranged to initiate the pulses at a frequency dependent upon the rotational speed of the engine and an overrun control circuit.

132428. Celanese Corporation. Smoking compositions. Characterized in that the composition contains upto about 5 per cent of a solid primary amine containing organic compound composed of C, H, N, and O atoms and having a vapour pressure such that it will decompose upon heating prior to distilling.

132429. Itek Corporation. Improved photographic plate and process for producing the same. Contacting with metal image forming material the physically developable image of a photographic medium comprising a photosensitive layer on a support therefor, contacting being prolonged until the image formed is a conductive metal image adherently bonded to the said medium, and forming a printing plate from the so developed medium.

132430. Void.

132431. Void.

132432. Roussel-Uclaf. Processes for the preparation of new derivatives of thiophene acetic acid. (November 5, 1970). An acylating agent is reacted in the presence of a lewis acid.

132433. Raytheon Company. Data Reader system. (July 28, 1971). Comprising a coded element containing both clock and data codes thereon and means for reading the data from the element, the reading means including means for illuminating the coded elements.

132434. Snam Progetti S.p.A. Modified polymers and process for producing the same. Comprises reacting an organic polymer with an unsaturated compound containing an electron-attracting group selected from -COOH, -COOR, -CN, -CHO, $-CONH_2-SO_3H$ and $-CH_2C_1$, R being and alkyl or an aryl, in a solvent in presence of an antioxidant at 40—200°C.

132435. Pennsylvania Engineering Corporation. Continuous casting machine starting bar. A flexible starting bar having head and remote ends, reversible drive means selectively engageable with the starting bar to advance it and its head end to registry with a flow through mold and to retract it into its storage position out of the path followed by an existing molded strand.

132436. Norton Company. Resin bonded abrasive products. Wherein abrasive grits being bonded by an organic polymer bond, the bond containing from 10 to 60 per cent by volume of finely divided metal filler, in the presence of from 5 to 30 per cent of a particulate dry film lubricant filler.

132437. Ashworth Bros., Inc. Card clothing. Including a card clothing wire strips assembled in side by side relationship and longitudinally disposed at an angle inclined to the direction of fibre flow, said strips having up standing portion providing a row of rigid generally triangular teeth.

132438. Sham Sundra. A carrier member adapted to be used for carrying a slat or blind along a verticle plane. Comprising a spindle, carrying means for receiving a chord or chain receptive means for receiving a slat, and support means for supporting carrier member from a channel structure, said spindle being capable of being angularly deflected.

132439. Sham Sundra. A louvre assembly. Comprising a channel structure a plurality of carrier members which are capable of being sliding along flanges of said channel structure and a slat adapted to be held by each of the carrier members such that said slats are held along verticle planes.

132440. Void.

132441. Void.

132442. Void.

132443. Void.

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132444. Dwarka Dass Mehra. Improvements in or relating to manufacture of spangles. [Addition to No. 108005]. Characterised in that a distilled water solution of potassium hydroxide is added to the sodium et potassium tartrate.

132445. Council of Scientific and Industrial Research. An automatic cutting table. Comprises a chasis which provided the base for a reel assembly with clay column which reel assembly has three sets of wires to cut clay column into bricks, a measuring belt, reel rotating mechanism and a reel reciprocating mechanism.

132446. Void.

132447. Imperial Chemical Industries Limited. Process for the manufacture of bipyridyls. (August 17, 1970). A process for the manufacture of bipyridyls which comprises heating a pyridine with a halogen, a 4-halo-pyridine or a 1-(4-pyridyl)- pyridinium halide at a temperature of at least 150°C.

132448. Void.

132449. Fisons Limited. A process for the production of monochromone-2-carboxylic acids. Cyclising 3-alkyl-2-hydroxy-b-(2-hydroxy-proxy)-acetophenone.

132450. Associated Engineering Limited. Heat exchangers. Passage members are interconnected and held in spaced side-by-side relationship by means of at least one manifold structure, said structure includes members bonded to the passage members.

132451. Gebr Bohler and Co. Aktiengesellschaft. Process of surface-hardening workpieces of hardenable alloys of iron and steel. Cold plasma is used to supply energy into the workpiece during treatment to produce elemental surface areas consisting of metastable austenite and said plasma conductively closed a circuit operated at a constant high frequency.

132452. Takeda Chemical Industries, Ltd. Process for producing triazolobenzodiazpine derivatives. Characterized by reacting 8-chloro-6-phenyl-2, 4-dihydro-1H-S-triazolo [1, 4] benzodiazopin-1-one with dimethyl aminoethychloride.

132453. Montecatini Edison S.p.A. Plant and method for obtaining highly concentrated nitric acid. Characterised in that ammonia combustion gases are adsorbed at 2-6 ata by nitric acid at from 70 to 95 percent concentration the mixture is then distilled under same pressure to given pure N_2O_4 and regenerate nitric acid at 70—95 per cent by wt. of concentration, the acid is recycled to the absorption of ammonia combustion gases the pure N_2O_4 is reacted at the same pressure with nitric acid, the reaction product is then rectified.

132454. E. I. du Pont de Nemours and Company. Emulsion type blasting agent. A water-in-oil type emulsion explosive composition characterized in that the emulsifier used is an alkali metal or ammonium stearate.

132455. Siemens Aktiengesellschaft. Improvements in or relating to duplex information transmission systems. (April 19, 1971). Comprising one or more channels of which are arranged within a regularly repeated pulse pattern, two transmission links, for synchronising the receiving end of each of the two transmission links, three devices are provided and a phase adjuster device.

132456. Taxaco Development Corporation. A process for the production of carbon monoxide and hydrogen by direct partial oxidations of liquid hydrocarbon. Comprises cooling gaseous effluent from the reaction zone to a temperature above the dewpoint of water vapour contained in said effluent gas stream and intimately contacting the cooled product gas stream with hydrocarbon liquid at a temperature above the dewpoint of water vapour contained is gas stream thereby effecting removal of entrained carbon particles from the product gas stream without condensation of water vapour.

132457. Kuraray Co. Ltd. Synthetic fibres from polyvinylalcohol of good water solubility. A process of preparing fibres of polyvinylalcoho which comprises forming a solution of polyvinylalcohol and spinning said solution through a spinning nozzle and such that a polyvinylalcohol fiber is formed.

132458. Maliakal Paul George. Automatic printed-circuit checker. Comprising two identical multiprobes each consisting of individual probes assembled vertically on a thick horizontal insulating sheet with holes in a matrix form which hold the individual probes connected to a row of sockets, which are connected to contact points on one deck of a two pole multiway stepping rotary switch, the spindle of which is coupled to a small direct current motor through reduction gears, and at each step of the switch a pair of identically situated individual probes of the multiprobes get connected through the two poles of switch to the two input points of a balanced amplifier having an output meter with centre-zero connected in series with energising coil of micro-relay the contact of which normally closed and is in series with the supply to the direct current motor and attached to the spindle of the stepping rotary switch is a pointer which moves over dial.

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132459. Dunlop Holdings Limited. Method of improving the thermal stability of polyvinyl halide polymers. (August 26, 1970). Comprises heating a composition, substantially free from elemental sulphur containing the polymer, a dithiocarbamate and an acid acceptor to a temperature above 150°C.

132460. C.A.V. Limited. Delivery valves for use in liquid fuel pumping apparatus. (August 27, 1970). Valves being disposed in or adjacent the fuel injection pump and which open during an injection stroke to permit fuel to flow to an associated engine and which then close and allow a pre-determined quantity of fuel to flow back towards the pump at the end of the injection stroke.

132461. Void.

132462. Afga-Gevaert N. V. A process for the production of photographs with a photographic material containing a spiropyran compound, a photoradical forming compound and a sensitizing agent therefor. (September 1, 1970). Comprising exposing imagewise, to activating electromagnetic radiation of a dose being sufficient to bring a directly visible image a photographic material supported on a photographic support and comprising a spiropyran, a photoradical forming compound and a sensitizing agent.

132463. Truth Tape Corporation. Information tape adapted to be used in conjunction with a roll of material and automatic inventory control system employing such tape. Comprises a tape having a length wise plurality of joined segments, each length corresponding to a minimum measurement unit, each segment having indicia thereupon to identify said measurement unit.

132464. Jean-Jacques Goupil. A multiple-chamber device for the packaging and mixing of predosed substances. [Addition to No. 126879]. A multiple-chamber devices for capsule for the packaging and mixing or predosed substances, wherein the device has a movable partition which can take up two positions a first position, in which the partition separates from one another two chambers containing substances to be mixed and a second position in which the partition co-operates with a plunger or pusher to close one of said chambers in which mixing is carried out.

132465. Hindustan Lever Limited. Antiperspirant composition and a process for preparing them. (August 18, 1970). Comprises the step of forming a slurry of aluminium chloro-hydrate and hexylene glycol and subsequently combining said slurry with an aerosol propellant.

132466. General Electric Company. Sintered intermetallic product and magnets produced therefrom. Pressing a mixture of Co_5R and CoR into a green body and sintering said green body in a substantially inert atmosphere to produce a sintered product where R stands Pr one of the following :—

(a) Co 61 to 64 per cent, samarium and Pr 36 to 39 per cent, Sm 10 to 90 per cent of Sm and Pr.

(b) Co 61 to 66 per cent, Sm and lanthanum 34 to 39 per cent, lanthanum 10 to 90 per cent of Sm and Ln.

(c) Co 60 to 66 per cent, Sm and cerium 40 to 34 per cent, cerium 10 to 90 per cent of Sm and Cerium.

(d) Co 61 to 66 per cent, Sm and Cerium mischmetal 34 to 39 per cent, Cerium mischmetal 10 to 90 per cent of the Sm. & Cerium mischmetal.

132467. Janssen Pharmaceutica N. V. Process for the preparation of "N-(Bicycloamino-alkanoyl)-anilines". Reacting 2-chloroaceto-2′6′ xylidine with transdecahydroquinoline.

132468. Siemens Aktiengesellschaft. Improvements in or relating to the diffusion of doping materials into wafers of semiconductor material. (June 2, 1971). Comprising the steps, wafers are heated to the temperature necessary for diffusion in a tube made of semiconductor material open at one end, the said open end having a ground surface which is pressed into sealing contact with a further ground surface.

132469. Chief Scientist, Research and Development Organisation, Ministry of Defence. Process for the preparation of substituted dihydroxy diphenyl compounds. Comprises esterification of a biphenol by treatment with fatty acid chloride to the corresponding di-ester followed by catalytic conversion with metal halides of the esters to the corresponding acyl biphenols, whereafter if desired, the acyl biphenols are converted by methods known per se to the respective alkyl biphenols.

132470. The Chief Scientist in the Research and Development Organisation, Ministry of Defence. Process for the protection of surfaces of stainless steel tanks/vessels containing bleaching liquor against corrosion. Comprises providing means for cathodic protection comprising on an anode made of aluminium, procelain posts for the anode and a resistance for maintaining the correcting current flow.

132471. M Varma. Domestic flour dough making device. Comprising a container, a rotor shaft carrying at least one blade, said blade having a kneading surface and a scraping surface, the said kneading surface facing the bottom of the container.

132472. Robert Bosch GMBH. Improvements in and relating to liquid filters. Liquid filter element having spirally wound strip of filter paper folded to form two portions defining v-shaped cross section along entire length of the strip and in which the edges of adjacent layers of folded strip are sealingly connected to each other at the open side of the strip of filter paper.

132473. Takeda Chemical Industries, Ltd. Process for the preparation of triazolobenzodiazepine 5n-oxide derivatives. Comprising alkylating the corresponding 2(unsubstituted) triazolobenzodiazepine 5N-oxide with conventional alkylating agents.

132474. Void.

132475. Void.

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132476. Void.

132477. Void.

132478. Void.

132479. Neiveli Ceramics and Refractories Ltd. Improvements in or relating to Indian water closets. Characterised in that it comprises a pre-cast curved perforated conduit built with a part of the pan and communicating with water inlet through an opening between the ends, which ends in turn communicates with recess under the rim of the pan extending along the remaining part of the pan.

132480. E. H. Green. Aerosol valve and sprayhead. Comprising a metering valve construction for pressurised package.

132481. Nederlandse Organisatie Voor Toegepast-Naturrwetenschappelijk Onderzoek Ten Behoeve Van Nujverheid Handle En Verkeer. Pipe fitting. Consists of an elastic circumferentially continuous sealing sleeve surrounding the ends and an inherently resilient corrosion resistant split socket under stress.

132482. National Aeronautics and Space Administration. Freez-dried rice. Comprising cooking rice, freezing and thawing it for two cycles followed by freezing and freeze drying.

132483. Void.

132484. Bayer Aktiengesellschaft. Production of aluminium fluoride. Comprising reacting aluminium oxide and gaseous hydrogen fluoride at 400-700°C in presence of ammonia, condensing the gaseous product, removing ammonia by evaporation precipitating ammonium flouride with reactive aluminium oxide aluminium hydroxide or a mixture thereof, introducing resulting ammonium cryolite into the reaction zone and recovering the product.

132485. Void.

132486. Alcan Research and Development Limited. Method of treating used carbon lining from an aluminium reduction cell. Fragments of the lining are treated in a confined region with dry steam at a temperature insufficient for substantial reaction of carbon in the region, for a sufficient time to exert disintegrating influence on the used lining and to convert said lining into a substantially dry form capable of treatment by classification by particle size to yield a fine fraction containing aluminium compounds and flourides and a coarser fraction containing in essence carbon.

132487. Vereinigte Osterreichische Eisen-und Stahlwerke Aktiengesellschaft. Braking means for a flexible connecting element which is resiliently supported at one end and may be stressed in shocks. Connecting element is guided to slide under friction over an arc-shaped deflection part which is stationary in its circumferential direction and in that for resilient support of said element two springs are arranged one behind the other.

132488. Voith Getriebe KG. Hydrodynamic torque converter. Characterised by the following feature: (a) the turbine outer diameter is 6 to 15% larger than the impeller outer diameter, (b) the exit angle of the impeller blades is 95° to 140°.

132489. Sham Sundra. A power transmitting mechanism. Comprising a value plate having an inlet port and at least one outlet port, a value body carrying a cylinder and a piston working therein, said piston adapted to actuate the flywheel.

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132490. Graft & Cie. AG Carding cylinder. Comprises a cylinder body provided with substantially halically shaped card clothing said card cothing defining a number of clothing sections and wherein each clothing section possesses, 1 to 24 windings per reference length viewed in the axial direction of the card cylinder.

132491. Koninklijke Nederlandsche Gist-En Spiritusfabriek N. V. Process for the preparation of the antibiotic MYC 8003. (August 14, 1970). Comprising aerobically cultivating *Streptomyces ramocissimus* (C.B.S. 190.69), in an aqueous nutrient medium containing assimilable sources of carbon nitrogen and inorganic substances and separating the antibiotic formed during the cultivation.

132492. The Singer Company (UK) Limited. Adjustable connecting rods, particularly for tufting machines. (August 22, 1970). Comprises rod parts arranged in end to end axial alignment and a turn-buckle in screw threaded engagement with such parts.

132493. The Goodyear Tire & Rubber Company. Improvements in polyureaurethane shock absorbing units and method for preparing the same. Comprises a shock absorbing element prepared by applying a polyurethane composition into a mold and having metal force-receiving plates inserted therein and curing, the polyurethane composition comprising a diamine and a reaction product of 3, 3′-bitolylene-4, 4′-diisocyanate and reactive hydrogen containing polymer.

132494. Raymond Camus. A plant for manufacturing reinforced concrete construction panels. Plant for the manufacture of concrete construction panels by pouring of concrete into moulds limited by vertical walls corresponding to the large faces of the panels and a horizontal bottom and by hardening.

132495. F. Hoffmann-La Roche & Co. Aktiengesellschaft. Process for the preparation of novel antibiotics. Comprises cultivating streptomyces sp X-5108 in aqueous nutrient medium containing assimilable sources of carbohydrate, nitrogen and inorganic salt under submerged aerobic conditions and recovering the antibiotic x-5108 from the said aqueous medium.

132496. Industrie Pirelli Societa per Azioni. Tread ring for a tyre of the replaceable tread type. (April 19, 1971). Includes a reinforcement or cincture formed by a halically wound metal cord convoluted parallely to the mid circumferential plane of the thread ring and by two additional layers of metal cords which extend in two directions crossing the mid circumferential plane.

132497. Albertoni De Lemos Bloisi. A system for public opinion research. Having a communication network in which each person to be interviewed corresponds to an answer device, is connected to the telephone line a filter that only work at the presence of information, filtering it and by the fact that the information signal in each telephone line an added and then sent to a central point of statistic computation.

132498. Orian Richard Gardner. A burner apparatus for burning light combustible materials such as rice hulls. Cylindrical combustion chamber having an open top, a feed duct extending through said chamber towards its base, hopper mean for delivering the ambustible material blower mean for delivering air and an agitator at the base of combustion chamber.

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132499. Void.

132500. Panchu Gopal Mondal and Ram Krishna Bhattacherje. Tubewells cylinder. Comprising a shell with a top nut having clean holes fitted at top end and a bottom nut having a non-return sheet valve fitted at bottom end, and a plunger arrangement slidable within the shell and having a reservoir provided at to top with a sheet valve.

132501. A. S. Mathew. A combined hair cutter-cum-razor. A first member for being gripped, a second member pivotally attached to it first and second plates each of which has one of it sides provided with a straight edge and the opposite side formed into a comb, said plates being disposable one over the other in first and second positions.

132502. Void.

132503. Uniroyal, Inc. Method of making a vulcanisate of a blend of low and high unsaturated rubbers employing a long chain non-aromatic hydrocarbon dithiocarbamate as accelerator. Comprises subjecting to vulcanization condition a composition comprising a blend of a rubber of low unsaturation and a rubber of high unsaturation sulfur, and a salt of a long chain non-aromatic hydro-carbon dithiocarbamate.

132504. The Broken Hill Proprietary Company Limited. Improved oxygen probe for the rapid measurement of oxygen activity in molten steel. (March 25, 1971). [Addition to No. 125269]. Improvement comprises using a plug of the solid electrode instead of a coating thereof.

132505. Brico Engineering Limited. Fuel Injectors. (August 19, 1970). Includes a member movable from a first position, in which it closes an aperture in the injector, to a second position in which the aperture is open to allow a controlled flow of fuel from the injector a magnetic circuit which moves the member from the first to the second position when magnetised.

132506. Pending.

132507. Void.

132508. Void.

132509. Void.

132510. Void.

132511. Void.

132512. Void.

132513. Vsesojuzny Nauchno-Issledovatelsky i proektny Institut Aljuminievoi Magnievoi i Elektrodnoi promyschlennosti. A system of current-supply buses in aluminium producing electrolyzers. The arrangement incorporates stacks of cathode buses located at the left and at the right with respect to the longitudinal axis of the electrolyzers along the current flow so that the L.H. and R.H. stacks in electrolyses located at the end of the row at the current outlet run lengthwise the transverse wall of the electrolyser towards the longitudinal axis.

132514. Void.

132515. Void.

132516. Cotton, Incorporated. Rapid wet fixation process for the production of cellulosic fibre containing material suitable for the fabrication of durable press apparel therefrom. Comprising applying a mixture of polymer forming and cross linking agent and an acid catalyst to the system, heating the material and continuously cold quenching and dissipating acidity from the resulting wet fixed material under non-polymerizing conditions.

132517. C. V. Venugopalan. Auto service indicator. Comprising two boxes to be put one inside other with the small engaged with "nots" to bigger with engaged small one being fixed and a rod being fixed to tubular frame after hood.

132518. Dresser Industries, Inc., Method and apparatus for mixing and modulating liquid fuel and intake air for an internal combustion engine. An intake air duct communicating with an intake manifold, means within said duct defining a throat for constricting the flow of intake air, fuel delivery means for introducing liquid fuel into said air duct.

132519. C. Conradty. Anode for electrochemical process. (June 8, 1971). Wherein activating substances which counteract passivation are anchored in a sintered porous carrier layer of valve metal.

132520. Veb Filmfabrik Wolfen. Spool for strip material. (June 2, 1971). Comprising a cylindrical hub with an axial bore, a passageway passing into the hub from its exterior surface, one wall of the passageway being provided with an upstanding attachment adapted to engage a perforation adjacent the leading edge of the strip material, and opposite wall being so shaped that leading edge of strip inserted into the passageway will be bent across its width until the perforation is engaged by the attachment.

132521. Takeda Chemical Industries, Ltd. Herbicidal compositions comprising benzylthio-oxa-or thiadiazole derivatives. [Divided out of No. 125626; ante-dated to March 9, 1970]. Comprises, apart from diluents 0.0001 to 20 per cent by weight or by volume of 2-benzylthio-,1, 3, 4-oxa- (or thio) diazole.

132522. Barmag Barmer Maschinenfabrik Aktiengesellschaft. Screw Extruder for Thermoplastic plastics. (April 19, 1971). Wherein in the conversion/ejection zone the screw is divided into chambers of different flight cross section by a full-length shearing screw land which forms a gap of at least two radial clearance with the barrel wall.

132523. Glanzstoff AG. Process for the preparation of aliphatically or cycloaliphatically 1, 3-disubstituted thiouread. (April 19, 1971). Reacting primary aliphatic or cycloaliphatic amines with carbon disulphide in the presence of active charcoal.

132524. Swiss Aluminium Ltd., Building Aluminium Electrolysis Cells. Including constructing within a steel pot, layers of heat insulation made of inoxdizable material, such as chamotte, alumina, silicon carbide, silicon nitride which are resistant to cryolite.

132525. Sandvik Aktiebolag (formerly known as Sandvikens Jernverks Aktiebolag). Insert for cutting of steel, cast iron or similar materials. (April 23, 1971). Consisting of an insert body or core of sintered hard metal, containing at least one carbide together with binder metal, on which body is applied a very thin coating with higher wear resistance than that of the hard metal characterised in that the thin coating consists of two wear resistant layers applied one upon the other.

132526. Void.

132527. Void.

132528. Void.

132529. Mahendra Manilal Nanavati. Improvements in or relating to packing materials for products at high temperatures and a process for their manufacture. Characterised in that the lamination between the film and the backing sheet is partial or weak, so that the backing sheet can be stripped of the film.

132530. Shreno Limited. Induced convection cooling and an apparatus therefor. Comprising steps of conveying article through a chamber, cooling heated air from the chamber through heat exchangers, returning and distributing cooled air around articles, cooling medium being atmospheric air, and flow of air from and back to chamber and flowing atmospheric air being induced by convection caused by heat transfer.

132531. Shreno Limited. Induced and forced convection cooling and an apparatus therefor. Comprising conveying articles through cooling chamber, inducing hot air from front and relatively cooler air from rear of the chamber, mixing the two by fan dividing the air and forcing through separate ducts the two streams one passing into front and the other passing, through heat exchanger, into rear of cooling chamber.

132532. Mrs. Meers Muralidhar Hattiangadi and Dr. M.S.R. Hattiangadi. A device for automatic cleaning of pH electrodes. Comprising the cleaning action being effected by midly scrubbing the surfaces of the electrodes with soft nylon brushed mounted on two wheels with teeth meshing and rotated concentric with the electrodes by a third smaller wheel called the drive wheel.

132533. Mrs. Meers Muralidhar Hattiangadi and Dr. Muralidhar Shiva Rao Hattiangadi. A device for the determination of moisture content. Comprising a burette with an electromagnetically controlled valve; a magnetic stirrer with a magnetised stirring rod, a pair of platinum electrodes dipped in the methanol in the titration beaker, a univibrator and a photo transistor.

132534. Dr. B. B. Paul. A process for the treatment of effluent from alcohol distillation plant and centrifugal separation of the yeast cream to produce cattle and chicken feed [Divided out of No. 125339; ante-dated to May 24, 1971]. Comprising inaparating the effluent and centrifuging the concentrate.

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132535. Void.

132536. Void.

132537. Void.

132538. Void.

132539. Trilok Chandra Goel. A device for latching the top plate to the main body of a transformer or the like. In which a collar with a circular plate having four levers is connected to the underside of the top plate through a spindle and co-operating with four stoppers fixed to the sides of the transformer body.

132540. The Singer Company (U.K.) Limited. A drive mechanism for the needle-stroke shaft of a tufting machine. (August 22, 1970). Comprises a drive input member an adjustment plate, an arcuate formation in such plate, and a connecting link means pivotally mounted on such plate.

132541. The Singer Company (U.K.) Limited. An adjustable jerker bar mechanism for a lifting machine. (August 22, 1970). Comprising two jerker bars at least one of the bars comprises a composite structure including a movably mounted jerker bar and an adjustment means.

132542. Anchor Hocking Corporation. On-line simulated impact tester for glass containers. Comprising a shoe, a shoe support lever mounted for swinging movement about a pivot, the pivot supporting both lever and the shoe, container rolling means spaced from and opposite to the surface of the shoe, and resilient biasing means acting to turn the lever about pivot in a direction urging shoe lower the rolling means.

132543. African Explosives and Chemical Industries Limited. Connecting device for joining in ignitable relationship a safety fuse to an ignitercord. Comprises in combination a tubular shell, one end of the shell being open to receive the safety fuse and the opposite end of the shell having a slot to accommodate the ignitercord, a base change in the end provided with the slot and a black powder change disposed within the shell.

132544. Clayton Dewandre Co., Ltd. Improvements in and relating to vehicle braking apparatus. Whereby pressure fluid from the system displaces the outer diaphragm or piston to apply the brakes and simultaneously exerts a corresponding force on the other piston or disphragm in the opposite direction.

132545. Indian Explosives Limited. Improved method and system for the preparation of thickened slurry explosives. Providing a method of aerating and cross-linking the slurry explosive by efficient addition and incorporation of chemical aerating agent and quick cross-linking agent continuously.

132546. Kalyan Kumar Adhikari. Improvements in or relating to spark ignition internal combustion engines. Comprises a cylinder and a carburation system with a flow obstruction means incorporated in between for augmenting the partial vaccum created in the inlet manifold.

132547. RCA Corporation. A process of making a semiconductor device. Comprising the steps if forming on a surface a plurality of marking bodies, forming on said surface and said bodies a coating of material, removing portions of said coating to expose said marking bodies and portions of said surface, oxidizing the exposed portions of said surface and contacting said marking bodies with solvent to remove them from said surafce.

132548. Hindustan Lever Limited. Soap-synthetic detergent tablets. (August 18, 1970). A personal washing tablet based upon a tallow soap as defined herein and a synthetic detergent as defined herein wherein the detergent is present in 3—40% by weight of total active detergent.

132549. Texaco Development Corporation. Motor fuel composition. (October 16, 1970). Comprising (a) a hydrocarbon base fuel (b) from 0.0004 to 0.1 weight percent based on composition of N-polyamine-substituted succinimide and (c) from 0.003 to 0.20 volume percent of (1) a polymer of a C_2 to C_6 unsaturated hydrocarbon (2) a copolymer of a C_2 to C_6 unsaturated hydrocarbon or (3) the corresponding hydrogenated polymer or copolymers which are having the molecular weight from about 500 to 3500.

132550. Void.

132551. Raychem Corporation. Heat recoverable alloy. (August 17, 1970). Comprising 49.1 to 50.2 atomic percent of titanium from 2.1 to 4.7% of iron and the remainder nickel, comprising melting together the constituents in the aforesaid amounts by weight.

132552. Polyair Schuhbedarf Ges. m.b.H. A device for applying soles and/or heels to uppers of shoes. A mold frame is integral and has a continuous parting line and in a portion which is opposite to the parting line consists of a resilient material forming a hinge so that the frame can be swung open and closed about said hinge, characterized in that the resilient material of the mold frame is a non-metal, particularly an elastomer.

132553. Ciba-Geigy AG. A process for the manufacture of disazo compounds. Comprises etherifying hydroxy disazo dyestuff with suitable etherifying agent.

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132554. Void.

132555. Phone-Poulenc S. A. Process for the preparation of isoindoline derivatives. 3-phenoxycarbonyloxy-2-(pyrid-2-yl)-isoindolin-1-one reacted with 4-methylpiperazine.

132556. Girling Limited. Improvements in or relating to vehicle brakes (August 24, 1970.) Pawl and hand brake actuating lever are mounted for rotation about a common axis, and a single pawl spring acts to bias the pawl to effect adjustment and to provide yielding force, the pawl being rockable about an axis transtransverse its axis.

132557. Butlers Limited. Bulb holders. (August 25, 1970). Includes a latch part being spaced around periphery of sleeve from fulcrum part, an insulating contact member carried by said plate, the plate being pivotable about said fulcrum part and a latch member retaining said plate in an operative position.

132558. Void.

132559. Associated Minerals Consolidated Limited. Improvements in or relating to a process for making mineral products for use in electric arc welding. (August 24, 1970). Product comprising substantial proportions by weight of titanium dioxide and metallic finely divided iron, said titanium dioxide and iron both being disseminated throughout the grains or particles.

132560. Dunlop Holdings Limited. Method for manufacturing cured articles. [Divided out of No. 125123; antedated to February 3, 1970]. Characterised by controlling the state of cure of the article by locating a temperature sensing probe within the article, initiating the cure cycle, monitoring local temperature and computing therefrom the total state of cure as a function of time in terms of a number of cure units.

132561. Chackachamparambil Lonappan George. Improvements in or relating to baby walker device. Consisting of a frame forming a base carrying swivel type castor wheels and brackets forming extension legs for a circular table top having a circular opening carrying an adjustable mounted saddle type seat, and characterized in that the child slided within the circular opening and seated on the saddle type seat so that the child can stand on its feet when propelling the body walker device.

132562. Siemens Aktiengesellschaft. Improvements in or relating to contact members. (April 19, 1971). The process for its production comprises alloying by diffusion into a surface portion of a base member a metallic component which comprises a first material having and chopping proporties and an auxillary material which reduces the temperature at which said first material diffuses at a given rate into the metallic base.

132563. The Babcock & Wilcox Company. Molten metal transfer apparatus. Includes first and second ceramic refractory gate nozzle portions, both nozzle portions having a discharge aperture, and means for maintaining the nozzle portions in slidable relationship with one another including a first metallic bracket embracing the first nozzle portions.

132564. Johns-Manville Corporation. Process for bonding thermosetting resins to polymeric resins and polyvinyl chloride pipe product having a surface composition of said resins. Comprises applying a coating of a solvate of a suitable thermoplastic polymeric resin composition in a suitable solvent on the surface of a polymeric resin composition, to the surface solution their produced is applied the uncured thermosetting resin followed by curing of the thermosetting resin and the surface solution.

132565. The Upjohn Company. Process for preparing novel prostagladin compounds. Comprises dehydrating prostaglanding E_1, E_2, and E_3 derivatives with neutral dehydrating agents.

132566. Badische Anilin & Soda-Fabrik Aktiengesellschaft. A process for the preparation of styryl dyes. Comprises reacting appropriately substituted N-di-substituted p-aminobenzaldehyde or its aldimmonium-salt with an appropriately substituted methyl cyamide.

132567. L. G. Hudson. Method and apparatus for perforating tubes. (August 21, 1970). The blank of material is split substantially into two halves and maintaining the halves of the blank secured to the inner surface of the tubular member at the sides of the lateral extremity of the slot and turned away from the recess in the die so that a clear slot is obtained.

132568. Bunker Ramo Corporation. Magnetic switches and method and apparatus for making same. Comprising magnetically actuable switch means, magnet means an actuating structure a support structure first and second holding means at least one of said holding means being including slidably and frictionally interengaged surface means.

132569. Vaessen-Schoemaker Holding N. V. Method for molding laminated structures from polar and non-polar macromolecular materials and articles obtained by such method. Comprises connecting the surfaces of polar and non-polar thermoplastics with a layer of a polyolefine with a halogen content of 0.2-5 per cent.

132570. M-R-S Manufacturing Company. Earth moving vehicle. Including a scraper bowl construction having an open front and portion facilitating the loading of material therein.

AUGUST 19

132571. Halcon International, Inc. Improved process for the vapor-phase oxidation of benzene to maleic anhydride. By oxidising benzene in the vapor phase with molecular oxygen in the presence of a catalyst comprising oxides of molybdenum and vanadium with boron as an activity stabilizer.

132572. Uniroyal, Inc. Method of preparing metal dithiocarbamate. Characterized in that the mixture is subjected to high speed agitation whereby insoluble metal dithiocarbamate precipitates and thereafter recovering the precipitate from mixture.

132573. Girling Limited. Load transmitting struts. (August 21, 1970). Comprising a variable volume chamber constituting load bearing faces and formed respectively of two separate load transmitting members which are movable, a mass of fluent granular material filling the chamber, and a third member movable relative to the end walls of the said chamber.

132574. Saunders Valve Company Limited. Improvements in ball valve seating assemblies. (August 26, 1970). Having a ball with a flow passage therethrough, the ball being rotatably mounted intermediate two bores in a valve casing to position the ends of the flow passages in relation to the bores to provide a desired degree of communication between the bores.

132575. Void.

132576. Alcan Research and Development Limited. Method of treating segregated material separated from a body of molten aluminium. Wherein fragments of segregated material are treated in a confined region with dry steam, to exert disintegrating influence on the chemical material and to convert the segregated material into a dry form capable of treatment for classification by particle size.

132577. Borgs Fabriks Aktiebolag. Aircraft arresting device. The section of the braking lines which is first removed from the storage means when the device is used to arrest an aircraft is stronger and heavier per unit length than the remainder of the braking line.

132578. K. Gopal. An optical unit for carrying out a process for the additive printing of the integral tripack motion picture colour films. Comprises an combination a point source a collimating means, a metal holder to hold the three permanent filters, a fibre band having predetermined size slits to control the amount of each coloured light and a lonverging means to converge respective controlled coloured beams at the printing gate.

132579. Void.

132580. Eli Lilly and Company. A process of preparing cephalexin monohydrate. [Divided out of No. 126042; ante-dated to April, 1970]. Characterised by mixing cephalexin with about 20 to about 50 per cent of its dry weight of water at about room temperature and dehydrating on heating the resulting crystalline cephalexin monohydrate to about 4 to about 8 per cent water content at 30°C and at an internal pressure of 8 mm of mercury.

132581. Modular Wall Systems, Inc. Precast panel, building wall construction and method. The method includes the steps of inserting a plurality of precast panels into edgewise superposition in and between elongate channels of an adjacent pair of column members and securing to the face of the column members elongate angle members extending for at least the height of the panel.

132582. Council of Scientific and Industrial Research. An improved process for the production of a fungal acid protease, useful, for example, as a bating agent in leather manufacture and as a digestive aid. Comprises growing penicillium janthinellum as a stationary culture on a solid nutrient medium of wheat or rice bran, water and a non-volatile acid at pH 3.5, drying and grinding to give powder, extracting with a buffer and subjecting to a fractional precipitation with ammonium sulphate to give acid protease.

132583. Edward Howard Green. Improved aerosol valve construction. Comprising a sprayhead including an actuator button and a stem coupled thereto, the stem extending into the valve assembly from the exterior thereof so that manupulation of the actuator will produce a valving action and permit pressurized product to emerge and be dispensed through the actuator and the valve assembly.

132584. Void.

132585. N. V. Philips' Gloeilampenfabrieken. Improvement in and relating to the manufacture of semiconductor devices. Characterised in that the bending spring has a thickness of less than 50u and the semiconductor device comprises a thickened, supporting rim for the flat bending springs.

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132586. Void.

132587. Void.

132588. Girling Limited. Improvements in or relating to vehicle brakes. Comprises a pair of brake shoes, shoe return spring means a strut acting between the shoes, the length of said strut being adjustable, a pawl spring to bias the pawl to increase the length of the strut.

132589. Kerr-Mcgee Chemical Corp. Method of preparing manganese dioxide by electrolysis. Using in electrolysis as an anode expanded metal selected from the group consisting of titanium, tantalum and zirconium.

132590. Saunders Valve Company Limited. Improvements in ball valves. (August 1970). Comprises introducing a circlip which obturates the passage extending between the ball with a flow passage therethrough and a valve casing in which the ball is rotatably mounted, the casing being in engagement with seating rings of extrudable material disposed on oppposite sides of the ball and urged into sealing contact with the ball by spring urged backing rings.

132591. Societe Technique Pour L'utilisation De La Precontrainte (S.T.U.P.—Procedes Freyssinet). Expansion joint between two portions of ground covering and process for producing the same Two portions of ground covering carried by independent structures and separated by a gap, two rigid metal plates, level with said coverings.

132592. Joseph Lucas (Industries) Limited. Electrically operated fans. (September 11, 1970). Hub member is moulded with a reces in one face thereof for receiving drive plate so that said hub member and blade assembly are rotatable with the drive shaft in use.

132593. Rama Shanker Bajoria. A retaining device. A tray having at least one of its sides open in order to facilitate removal or introduction of articles into said tray, the opposite side thereof being open or having a wall, the other two opposite sides having a wall each, support means provided for supplying said member.

132594. Dowty Technical Developments Limited. Hydraulic swash plate pump. Characterised by aperture supporting a transverse shaft carrying the swash plate and a servo-motor cylinder housing a servo piston arranged to adjust the inclination of the swash plate.

132595. Stork Amsterdam N. V. Improvements in and relating to a method and device for the printing of a web or a rectangular sheet of material. Apparatus having at least one thin walled cylinderical stencil provided with an internal squeegee and means for lifting and/or lowering the squeeges periodically in a synchronized manner.

132596. Void.

132597. N. V. Philips' Gloeilampenfabrieken. Method of manufacturing a semiconductor device and semiconductor device manufactured by the method. (July 7, 1971). Characterised in that a mask is first provided on a surface of the body after which a recess is formed in the part of the surface not covered by said mask by removing material, in which the operation material is also removed below the edge of the mask so that the edge of the mask projects freely, a surface zone adjoining the surface of the recess being then locally doped with activators while using the masking provided by the freely projected edge parts of the mask, the oxide pattern being obtained by oxidation.

132598. N. V. Philips Gloeilampenfabrieken. Semiconductor device. (July 7, 1971). Characterized in that the body comprises an electrically insulating oxide pattern of which at least a part is inset in the semiconductor body, said inset part fully surrounding the island, the surface zone of the second conductivity type being fomed by a zone which adjoins the inset part and which separates the inset oxide from the island.

132599. N. V. Philips' Gloeilampenfabrieken. Method of manufacturing a semiconductor device. (July 7. 1971). Characterised in that a layer which mask both against doping and against oxidation and has at least an aperture which is permeable to activators is provided on the said surface, that the underlaying semiconductor region is doped with activators via said aperture, that at least a part of the surface which is not doped by the said activators and substantially entirely surrounds the doped part is then exposed while removing a part of the masking layer, after which the unmasked part of the surface is oxidized which oxidation the oxide pattern is formed, the activators diffusing further in the body and forming the said zone.

132600. N. V. Philips' Gloeilampenfabrieken. Semiconductor device, in particular a monolithic integrated circuit. (July 7, 1971). Characterised in that the part of the isolation zone adjoining the surface of the epitaxial layer is formed by a sunken insulation layer countersunk in the epitaxial layer and consisting of an insulating material formed by conversion of the semiconductor material, said insulation layer extending only over part of the thickness of the epitaxial layer.

132601. N. V. Philips' Gloeilampenfabrieken. Semiconductor device having a transistor. (July 7, 1971). Characterised in that the semi-conductor body comprises a second layer-shaped part situated beside and spaced from the first layer-shaped part, a second part of the pattern which is provided simultaneously with the first part of the pattern said second layer-shaped part comprising a part of the collector zone, termed connection part of the collector zone, adjoining the main surface which connection part is separated from the first layer-shaped part only by a part belonging to at least one of the two said parts of the pattern.

132602. N. V. Philips' Gloeilampenfabrieken. Semiconductor device, in particular integrated monolithic circuit. (July 7, 1971). Characterised in that at least the part of the isolation zone adjoining the surface of the semiconductor layer is constituted by an insulation layer of an insulating material sunken in the semiconductor layer and a semiconductor zone associated with the island is connected in an electrically conductive manner to a zone associated with an adjacent island by means of a connection zone which is passed underneath the sunken insulation layer, is isolated from the substrated body and adjoins the zones associated with the two islands, which zones are connected by the connection zone.

132603. Void.

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132604. Void.

132605. Combustion Engineering. Inc. Apparatus for initiating the heat generation phase of an electroslag refining process. Including melting flux in first mold, mountaining passageway between first and second mold fully of inert gas, passing molten flux to second mold to fill it above the bottom end of an electrode in the mold, and melting the electrode beneath the flux.

132606. Jagat Punjabhai Palkhiwala. Transmission gears. Having a pair of intermeshing internally and externally toothed gears with a difference of one tooth or few teeth.

132607. Void.

132608. Colebrand Limited. Method of coating a submerged surface by spraying with a liquid and apparatus therefor. Painting by the projection or droplers of the point with considerable velocity to impact the surface upon which the droplets then coalexe to form a uniform film.

132609. Void.

132610. Anton Braun. Improvements in or relating to free piston engine. A free piston engine including combustion causing means for initiating combustion in a cylinder to drive a piston in a power stroke and sensing means including two relatively movable members operable upon relative movement to produce a variable sensing signal dependent in value upon a characteristic of such relative movement.

132611. Anton Braun. Improvements in or relating to free piston engine. [Addition to No. 132610]. Comprising sensing means arranged to generate an electrical sensing signal at an instant and with a magnitude dependent upon a characteristic of the movement of the piston and an electrical control circuit arranged to control operation of the combustion causing means in dependence on the sensing signal.

132612. Anton Braun. Improvement in or relating to free piston engine. Comprising means for supplying at starting a combustion starting mixture to the cylinder, means for driving the piston to a preliminary compression stroke prior to ignition for a first working stroke, and auxiliary means for igniting the combustible starting mixture for initiating the first working stroke.

132613. Narottam Dwarkadas Bhatia. A process to prepare pellets of activated carbon. Comprising (a) preparation of slurry of pulverized charcoal with wood-tar or coaltar or a mixture of both and a turpentine, and (b) making briquettes from the slurry, (c) dusting briquettes or pellets with charcoal dust, (d) baking the dusted briquettes or pellets at temperature of 275°C to 700°C, and (e) activating the baked briquettes or pellets at temperature 800°C to 1200°C, and (f) grading the briquettes or pellets.

August 23

132614. Council of Scientific and Industrial Research. Production of paper twine. An aqueous solutions of either polyvinyl alcohol and glycerine or glue and glycerine with or without a water soluble direct dye is used for surface treatment of paper before making twine.

132615. Vishwa Nath Karail. Small spring tube-less tyre. Comprising an inner and outer radially connected by means of springs the space between two said consecutive spring occupied by another set of horizontal springs connected to the top and bottom of two consecutive radial springs.

132616. Void.

132617. Vasant Engineering Ltd. Process of making power transmission endless belts. Comprises load bearing members having teeth of an elastomeric material the other face of the member having a backing of rubberised fabric|

132618. Void.

132619. Void.

132620. Michel Feltz. Process of manufacturing ferrous alloys. Comprises forming cast ferrous alloys having carbon and chromium as main alloying elements, the total contents in percentage by weight of chromium and carbon in said alloys satisfying the relationship 11 ≧ per cent Cr-8 x per cent C ≦ 16 the balance being essentially iron.

132621. Agfa-Gevaert N. V. Apparatus for processing photographic material. (September 2, 1970). A container for processing liquid, means for keeping the container filled up to a predetermined level, a guide plate with a concave surface for guiding photographic material into and out of such processing liquid, a plurality of grooves running along such concave surface, and a series of openings providing liquid overflow edges distributed across the path of the sheet material, means for driving sheet material through the container, immersion means for constraining such sheet material to follow the said concave supporting surface of the guide plate at least over the part thereof which rises towards the exit end of the plate.

132622. Uniform A. G. Imporvements in or relating to the production of polymeric foam. Continuously supplying a mixture of liquid foam reactants to the bottom of a vessel allowing the mixture to expand upwardly in said vessel, prior to completion of expansion of the mixture allowing partially-expanded foam to flow from said vessel over a weir structure, and thereafter allowing the foam to complete the expansion process in a channel-shaped conveyor in which the foam is continuously moved away from said weir structure.

132623. Telephon-U. Telegraphen-Babriks-Aktiengesellschaft Kapsch & Sohne in Wien. Primary cells. (April 19, 1971). Comprising a tubular conductor piece which is embeded in the casing bottom with the material of the casing extending through a series of perforations spaced around the wall of the conductor peice and which one end in electrical contact with the negative electrode, and a contact plate which is bonded to the other end of the tubular conductor piece.

132624. Void.

132625. Void.

132626. M. G. Koblents, G. F. Mitskevich, E. J. Polovets, and A. F. Zhevago. Reed switch. Comprising at least two contact members of which one ferromagnetic structure within sealed vessel, one wound member first and second solid current lead, but end forming an operative air gap flexible cable.

132627. Etablissement Salgad. Explosive device. Having an inner casing containing the scatter pieces being made of plastics material.

132628. Sandoz Ltd. A process for the preparation of heterocyclic compounds of low solubility. Reacting 2 mols of 5, 6-dichloro-3-imino-isoindolinone or 5, 6-dichloro-3, 3′(-dihalogeneo-isoindolinone with 1 mol of 2, 2′-dichloro-or 3, 3′ (-dimethyl-4, 4′ diaminodiphenyl.

132629. Emhart Corporation. Article transfer mechanism. [Divided out or No. 124162; ante-dated to November 25, 1969]. The improvement comprises an endless carrier chain, a pair of sprockets, means for driving one of said sprockets said drive means including a drive over-load release device and means for adjustably positioning the driven sprockets.

132630. Foster, Yates & Thom Limited. Improvements in or relating to moulding machines for articles of footwear. (August 25, 1970). Comprises a plurality of mould members, a mould plate having an outeredge which fits flush against a shoulder on some of the mould members during a sole moulding operation.

132631. Void.

132632. Void.

132633. Void.

132634. N. V. Philips Gloeilampenfabrieken. Method of manufacturing a body having anisotropic permanent magnetic properties. Producing a body having anisotropic permanent magnetic properties comprising components formed by one or more compounds of cobalt or a combination of cobalt with one or more elements Fe, Ni and Cu, and with elements of the rare earths, namely yttrium and thorium.

132635. Void.

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132636. Mrs. Neela Arjun Bhagat. An agitating apparatus. Comprising a housing wherein is located the agitator fan driving mechanism and which is adapted to be inserted vertically into the agitated fluid holding receptacles having a cock and a water-proof lid.

132637. Void.

132638. Nedschroef Octrooi Maatschappij N. V. A machine for upsetting bolts and similar workpieces. Comprises a plurality of die pairs each including a die for the shank of a workpiece and a die for the head of the workpiece, each of said shank dies being provided with ejecting pins and means for moving the ejecting pin.

132639. Joseph Lucas (Industries) Limited. Electrical switch assemblies. (September 12, 1970). Including a first and second sets of electrical contacts operable by a first and second sliders and coupling means between the sliders such that movement of the second slider from its inoperative to its operative position moves the first slider to its operative position.

132640. Sherritt Gordon Mines Limited. Rotary Joint. (September 21, 1970). Comprising a housing having wall with a annular chamber, outer and inner pipes, out pipe terminated at open end and in communication with a conduit, inner pipe terminated an attenuated portion in communication with a conduit.

132641. Compret N. V. Improvements relating to exercising apparatus. (September 22, 1970). Comprising first strut member fixed by one end in a first handle piece, first bracket means fitted at the other end of the first strut member second and third strut member extending on opposite sides of one end of said first strut member, second bracket means fixedly receiving one end of the opposite ends of second and third strut member a second handle piece and resilient means connected to said first bracket means.

132642. The Firestone Tire & Rubber Company. Improvement in method of removing volatiles from an elastomer. Comprising the successive steps of charging the elastomer into an extruder, mechanically working the elastomer whereby its temperature is increased, adding an inert gas or water through an inlet in the extruder and mixing the added material with the elastomer, allowing vapors to flash from the mixture thus formed and escape through a vented section in the extruder, and discharing the elastomer from the end of the extruder at a lower content of volatile hydrocarbons.

132643. K. P. R. K. Nair and K. P. A. Nair. An improved door latch or lock. Comprising an arm actuated by a handle or a key to arrest a spring loaded belt in the retracted position inside a housing as well as in the normal position of projecting from the housing.

132644. Void.

132645. Basanta Kumar Roy. Two sheel tractor. Comprising axle, two groundwheels and two toothed wheels.

132646. Farbwerke Hoechst Aktiengesellschaft Vormals Meister Lucius & Bruning. Process for producing multicolour effects by means of reactive dyestuffs of different fixation properties or colour resists by means of reactive dyestuffs under other reactive dyestuffs. Resist effects by means of reactive dyestuffs below reactive dyestuffs on textile flat structures from native or regenerated cellulose fibrous materials wherein the textile material is printed in any derived order with a acid printing paste.

132647. Farbwerke Hoechst Aktiengesellschaft Vormals Meister Lucius & Burning. Process for preparation of water-insoluble monoazo dyestuff. Characterized by coupling the diazonium compound of 5-chloro-4-amino-2-acetyl-amino-toluene with 5-(2′, 3′-oxynaphthoylamino)-7-chlorobenzimidazolone.

132648. Farbwerke Hoechst Aktiengesellschaft Vormals Meister Lucius & Bruning. Process for the preparation of monoazo pigments. Characterized by heating the α -modification of azo pigment prepared by coupling 1-(2′ 3′-oxpnaphthoylamino)-2-ethoxybenzene with diazonium salt of 1 aminobenzene-4-carboxylic acid amide at 115-120°C.

132649. Void.

132650. Fichtel & Sachs A. G. Contiguously stamped brake arm for bicycle hubs and its method of production. Characterised in that the brake arm outline on the upper edge at least over a large part of its length corresponds to the outline on the lower edge in the same direction, but offset in longitudinal direction.

132651. Void.

132652. Void.

132653. Void.

132654. Ken Hayashibara. Methods for the fractionation of amyloses. A method of fractionating amylose into long chained macro-molecular amylose and short chained low molecular amylose comprining an extraction or extractions of dried mixtures of amylose in powder form by solvent and separating the dissolved low molecular amylose solution from the undissolved residual macro-molecular amylose.

132655. G. R. Mansukhani. Flushing apparatus. Wherein the bell has on its dome or side wall on air inlet and a sealing adapted to seal or open the air inlet so as to provide for a full or a partial flush respectively.

AUGUST 25

132656. Void.

132657. Void.

132658. Imperial Chemical Industries Limited. Polyester fibres with improved moisture regain. (September 9, 1970). An aromatic polyester fibre containing dispersed particles of sodium sulphate.

132659. USS Engineers And Consultants, Inc. Method for effecting the rapid heat-treatment of steel plate. Which comprises preconditioning said steel by preheating at a temperature in the range of from $(A_1$-150)° F to a temperature just below A_1 temperature of the steel for a time of about 5 minutes to about 30 minutes.

132660. Eli Lilly And Company. Method of inhibiting the hydrolysis of acetylsalicylic acid in pharmaceutical compositions comprising acetylsalicylic acid and D-Propoxyphene hydrocloride.

132661. Kungursky Mashinostroitelny Zavod. Turbodrill. Mechanism for reducing the rotation speed of bit-mounting element is a friction speed reducer consisting of inner and outer wheels carriers with rolling elements located between said inner and outer wheels and being acted upon by the contact force of friction roll during rotation of rotors.

132662. Harish Engineering Works. Rotary screen printing machine. A rotary screen for printing on fabric or like sheet material by the help of said screen in which the rotary printing screen is made out of woven nylon cloth imesh formation, the screen being of preformed tubular shape without a joint and held taut at its free ends, such that in actual use it adopts a truly circular shape, the means for supplying the colour to the screen being disposed within the said screen and the colour pushed out of the gauze of the screen by the help of a squeeze also disposed within the said screen and adapted to be in contact with the inside surface of the screen.

132663. Beni Limited. Cut-in-relay for use in train lighting systems. Comprising a relay having normally closed contact load resistance connected across said contact a potential divider and an amplifier connected to said potential divider through a zener diode said amplifier being connected to the coil of said relay.

132664. Sandoz Ltd. Process for the preparation of new Bis-(Triazinylamino)-Stilbenesulphonic acids. Reacting 2 mols of a cyanumic halide in any desired order with (a) 1 mol of 4.4′ diaminostilbene 2.2′ disulphuric acid or of a salt of urin acid, (a) 1 mol. of an aminobenzene disulphonic acid which may be substituted or of a slat thereof (c) 1 mol. ammonia or of a primary or secondary amine and (d) an alkyl, acyloalkyl, hydroxy alkyl, alkoxy alkyl, hydroxy alkoxy alky aralkyl or aryloxyalkyl amine or of a mixture of these amines.

132665. Void.

132666. Beecham Group Limited. Production of 6-amino-penicillanic acid. (August 27, 1970). A process for preparing 6-amino-penicillanic acid, which comprises treating benzylpenicillin or a salt thereof in aqueous solution with a water-insoluble enzyme preparation which has been prepared by absorbing a deacylase enzyme known to split the amido group in penicillins on a water-insoluble absorbent material and rendering it water-insoluble by contacting it with water-soluble dialdehyde, said enyzme preparation having an enzyme activity as hereinbefore defined.

132667. The Upjohn Company. Process for the production of 1, 3-dihydro-5-phenyl-2H-1, 4-Benzodiazepinethione and derivatives thereof. Comprising reacting 7-chloro 1, 3 dihydra-5-phenyl-2H-1, 4 benzodiazepin 2-one 4-oxide with phosphorous penta sulphide.

132668. The Upjohn Company. Process for the production of triazolobenzodiazepines. Comprises reacting 2, 6-dichloro-4-phenylquinoline with hydrazine hydrate the obtained product is reacted with triethyl orthoacetate to form 7-chloro-1-methyl-5-phenyl-5-triazolo [4, 3-a] quinoline which is reacted with an oxidizing agent to form 5-chloro-2-(3-methyl-4H-1, 2, 4-triazol-4-yl) benzophenone. the product is reacted with paraformaldehyde to give 5-choloro-2-[-3-(hydroxymethyl)-5-methyl-4H-1, 2, 4-triazol-4-yl] benzophenone which brominated with P Br_3 to form 5-chloro-2-[3-(bromoethyl)-5-methyl-4H-1, 3, 4-triazol-4-yl) benzophenone and finally reacting this product with ammonia to give 8-chloro-1-methyl-6-phenyl-4H-S-triazolo [4, 3-a] [1, 4] benzodiazepine.

132669. The Upjohn Company. Process for the production of Novel 1-substituted-6-phenyl-4H-S-triazolo [4, 3-A] [1, 4] benzodiazepines. Characterized by reacting 7-chloro-5-phenyl-3H-1, 4-benzodiazepin-2-yl hydrazine with thiophosgene and the product so obtained is reacted with sodium hydroxide and methyl iodide to produce 8-chloro-1 (methylthio)-6-phenyl-4H-S-triazolo-[4, 3-a] [1, 4] benzodiazepine.

132670. The Upjohn Company. Process for the production of novel 1-substituted-6-phenyl-4H-S-triazolo [4, 3-a] [1, 4] benzodiazepines. Characterized by heating 8-chloro-6-phenyl-4H-S-triazole-[4, 3-a] [1, 4] benzodiazepine with N-chloro succinimide in acyl medium.

132671. The Upjohn Company. Novel 1-substituted-6-phenyl-4H-S-Triazolo [4, 3-a] [1, 4] benzodiaze and a process for the production thereof. Treating a 5-phenyl 3H-1, 4-benzodiazepin-2yl hydrazine derivative with an acyl halide.

132672. The Upjohn Company. Novel 1-trifluoromethyl-6-phenyl-4H-S-triazolo [4, 3-a] [1, 4] benzodiazepines and a method for the production thereof. Comprising reacting 8-isopropyl sulphenyl-6-dimethyl-amino-5- (O-bromophenyl) 3-H-1, 4-benzodiazepin 2yl hydrazine with trifluoroacetic acid.

132673. The Upjohn Company. Process for the production of amino triazolo benzodiazepines. 8-chloro-6-phenyl-4H-S. triazolo [4, 3-a] [1, 4] benzodiazepine-1-acetic acid methyl ester is reacted with dimethylamine in dimethyl formamide.

132674. Dowty Technical Developments Limited. A variable displacement hydraulic pump or motor. Comprises a displacement varying member, means responsive to the operative hydraulic pressure in the pump or motor a hydraulic servo-cylinder, a hydraulic servo-piston, a control unit and a high pressure port.

132675. Dowty Technical Developments Limited. Swash plate device. Comprises a rotary cylinder block, cylinders in the block arranged parallel to or inclined to the block rotation axis, pistons reciprocable in the cylinders and projecting from one end of said block, a titable swash plate disposed adjacent the one end of said block and having a flat swash surface engaged by the pistons.

132676. Void.

132677. Void.

132678. Void.

132679. Void.

132680. Dunlop Holdings Limited. (Formerly known as The Dunlop Company Limited.) Vehicle suspensions. (August 27, 1970). Comprising two axle sets running in axle boxes mounted at the ends of substantially rigid side members.

132681. Eastman Kodak Company. A process for increasing radiation sensitivity of photographic silver halide emulsion layer. Comprises (1) reducing air in the atmosphere surrounding layer (2) subjecting the layer to gaseous hydrogen (3) maintaining the layer in an atmosphere comprising mainly hydrogen at a pressure of at least 10 torr, at a temperature of O-100°C and (4) removing the layer from hydrogen atmosphere.

132682. Pfizer Inc. Process for preparing α-sulfo-and α-sulfoalkyacylpenicillins. (April 19, 1971). Comprises reacting a compound selected from 6-aminopenicillanic acid, its amine salt, mono-and di-silyl and ester derivatives thereof with the appropriate reactant selected from penicillinic acid.

132683. Dunlop Holdings Limited. Improvements in sieve screens. (August 28. 1970). Wherein each elenent comprises a core of plastic material covered at least in part by a layer of abrasion—resistant elestomeric material.

132684. Ferdinand Hubert Franciscus Gerardus Spierings. Improvements in or relating to apparatus for cooling beverages. Comprising a container incorporated with a coiled tube.

132685. Inventa AG fur Forschung und Patentverwertung. Process for purifying lactams. Characterized in that the lactams are extracted in a crystalline state with aliphatic and cycloaliphatic hydrocarbons having 5-12 C-atoms.

132686. Frunzensky Politekhnichesky Institut Ministerstva Narodnogo Obrazovania Kirgizshoi SSR. A graphic answer input device for a teching machine for graphic technique. Comprising a contact-bearing insulated board with spaced contacts, a perforated insulated card having spaced holes, a current carrying flexible foil and a problem blank.

132687. Void.

132688. Institut Francais Du Petrole Des Carburants Et Lubrifiants. Process for catalytic hydrogenation of aromatic hydrocarbons to naphthenic hydrocarbons of high purity. Comprises hydrogenating aromatic hydrocarbon in presence of a Group VIII metal and the product in gaseous phase in reacted then with an oxide of Group VIII metal.

132689. Friedrich Uhde GMBH. Process for the removal of mercury from mercury-vearing waste water. Improvement comprises converting pre-purified waste water to flushing water by vacuum distillation and condensation separating the blow down from the vacuum distillation and recycling the water with dissolved components into the waste-water system of the plant.

132690. F. L. Smidth & Co. A/S,. Processes for burning materials in rotary kilns and kilns for use therein. Comprises continuously falling streams of material and extending across the kiln at acute angle to the kiln so that on entering a curtain gases are relieved of some suspended particles which drop with the particles in the curtain, whereas suspended particles leaving the last curtain are separated and returned to the kiln.

132691. S. K. Karanjia. Multipurpose container for fluids. Comprising a reservoir with one or more orifices or channels, a cap or stopper, dispenser means mounted on said cap and an outer cover.

132692. E. Vallak, Method and means for casting metals in ingot moulds or other casting moulds. Characterized in that the case or hot top is placed on or in the upper part of the ingot mould and that after the ingot mould has been filled with metal the case or hot top is moved off from the top of the ingot, when a thin layer has solidified at the top of the ingot but before ingot has completely solidified.

132693. Foseco International Limited. Refractory dressings for ingot moulds. (March 12, 1969). [Divided out of No. 125690; ante-dated to March 11, 1970]. Comprising particulate refractory material, liquid sodium silicate as binder and a Xanthomonas colloid as suspension agent.

132694. Council of Scientific and Industrial Research. Improvements in or relating to the process for coating on paper for use as thermographic paper. A process for coating on paper for use as thermographic paper which consists in (i) preparing a coating composition by dissolving white heat fusible particles of zinc stearate/calcium stearate in solvent ethyl alcohol/a mixture of toluene and acetone with or without ethyl cellulose and (ii) coating paper with the coating composition thus prepared characterised in that a heat fusible binder fiz., palmitic acid/stearic acid is added to the coating composition and further characterised in that the ingredients are added in the following proportions viz:—palmitic acid/stearic acid, zinc stearate/calcium stearate with or without ethyl cellulose in the ratio of 5:5:0.5 to 8:5:0.5, and ethyl alcohol or a mixture of toluene and acetone in the ratio 1:4 is used as solvent whereby a better heat sensitive product is obtained.

132695. Edward Howard Green. Pressurized product dispenser valve. Comprising a housing which is capable of being connected to a pressurized package and includes a valve plunger spring biased to be axially pressed towards an annular gasket.

132696. Void.

132697. Universal Oil Products Company. A process for treating an input water stream containing a water soluble sulfite compound. A method for treating an input water stream to reduce its total sulfer content said method comprising the steps of (a) reacting the input water stream with a reducing agent to form a thiosulfate-containing effluent streat (b) catalytically treating with a catalyst combined with a suitable carrier material the effluent stream from step (a) with hydrogen to produce a thiosulfate free aqueous effluent stream containing a sulfide compound and thereafter (a) stripping hydrogen sulfide by fractional distillation from aqueous effluent stream produced in step (b) to form a sulfate-free treated water stream with reduced sulfur content.

132698. Swiss Aluminium Ltd. Plant for the production of aluminium by electrolysis of alumina in a melt. Comprising a plurality of cells in series puring plurality of like cathode bars, an anode beam, and electrical connecting means between each cell and the next in the series, each connecting means comprising a plurality of cathode bar bars each of which connects a respective group of at least one of the cathode bar teminals of the one cell to the anode beam of the next cell.

132699. Swiss Aluminium Limited. Electrolytic cells for manufacture of aluminium. Wherein the horizontal distance between outer lower edges of the anodes and adjacent wall surfaces of the lining does not exceed 40 cm. the thermal resistance of the walls of the insulation layer is between $0.5 \text{ c } 10^3 \frac{\text{h} \quad ^\circ\text{C}}{\text{k cal}}$ and $1 \times 10^3 \frac{\text{h} \quad ^\circ\text{C}}{\text{k cal}}$ the ratio of iron cross section to carbon cross section in any verticle plane from end to end of the cell through the btoom of the lining is between 17:100 and 20:100.

132700. Void.

132701. Meiji Seika Kaisha, Ltd. Preparation of saponin-bearing ginseng drug. Comprises culturing a callus strain, a crown gall strain or a re-differentiated root under sterile condition in a culture medium. and removing the cultured callus, crown gall or re-differentiated root and. if desired. drying and/or extracting with an organic solvent the obtained callus, crown gall or root.

August 30

132702. Lamson Industries Limited. Improvements in or relating to hectographic carbon paper and its method of preparation. (November 4. 1970). Comprising a base web carrying a transferable coating which includes a substantially colourless leucauramine derivative sufficiently soluble in spirit duplicating liquid.

132703. Eric Leslie Gordon De Connick. Improved steering stabilizer for wheeled vehicles (September 9, 1970). Adapped for attachment to a road vehicle between a part of the vehicle pivotable with a steerable wheel about a steering axis and on rigid part of the vehicle.

132704. Void.

132705. Braun Aktiengesellschaft. Piezoelectric igniter. Including engaging means moving in unison with the housing for moving a hammer with an impact spring away from a piezo electric body to a predetermined distance and releasing the same.

132706. Void.

132707. Void.

132708. Sandoz Ltd. Finishing process. (September 22, 1970). Contacting the material with a finishing agent in presence of water and a foaming agent, subjecting to a dynamic treatment, and submitting to finishing conditions.

132709. K. F. Mistry. An improved cramp. A substantially T-shaped frame with the leg and the arms thereof having bent free ends, said bent free ends of the arms being provided with oppositely disposed grip-jaws adjustable parallel to said arms and said bent free end of the let being provided with a press-jaw adjustable parallel to said leg.

132710. K. F. Mistry. A universal cramp. Comprising a horizontally disposed support plate form and a substantially upright arm which together form a G-shaped body, said upright arm being provided at its free and with a threaded collar.

132711. Chow. Mei Chang. Adhesive plastic tape with striated surface. Comprising a flexible soft plastic film having a front surface and rear surface an adhesive coated on rear surface and from surface having a plurality of striatious which has alternate parallel concave and convex points.

August 31

132712. Void.

132713. Void.

132714. Void.

132715. Council of Scientific and Industrial Research. Preparation of adherent rubber electrodeposits over aluminium from natural rubber latex. Characterized in that polished aluminium articles are kept as anode in a process pot containing 6 to 10% centrifuged rubber latex and additives, the said porous pot is kept in a stainless steel container containing water which acts as cathode, direct current in the voltage range 120 to 150 volts is passed and the so obtained product is backed.

132716. Council of Scientific and Industrial Research. Improvements in or relating to the electrolytic production of glyxylic acid. By electrolytic reduction of a solution of oxalic acid.

132717. Void.

132718. Void.

132719. Void.

132720. Void.

132721. Void.

132722. Void.

132723. Void.

132724. Void.

132725. FMC Corporation. Butterfly valve seat. [Divided out of No. 127621; ante-dated to July 20, 1970]. Comprising an annular seat of resillently compressible material to be positioned at inner wall of the valve, retainer bonded to the seat having ends to form a reservoir.

132726. The Upjohn Company. Novel 1-substituted 6-phenyl-4h-s-triazolo [4, 3-a] [1, 4] benzodiazepines and a process for the production thereof. Comprises heating 1, 3-dihydro-7-chloro-5-phenyl 2H 1, 4 benzodiazepine 2-thione with an ethoxy acetic acid hydrazide.

132727. Treadwell Corporation. A process of fractional separation of substances of differing volatility. Passing a feed composed of a mixture of materials to be separated through a rectification zone and a stripping zone and the system operates at variable molal liquid overflow and excess heat is produced in rectification zones over that in stripping zones and transferring by indirect heat exchange the heat from rectification zones to corresponding stripping zones.

132728. Ugine Kuhlmann. Process for preparing azines. (May 26, 1971). Comprising reacting ammonia with an appropriate carbonyl compound and hydrogen peroxide in the presence of cyanogen or a nitrile.

132729. Void.

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132730. Bal Krishna Sinha. Pneumatic engine. Provided with a main pressure generating arrangement for the main reservoir, an auxiliary reservoir to compensate the loss of air of the main reservoir, an auxiliary pressure generating device for the auxiliary reservoir wherein the engine piston is provided an extension rod coming out of the cylinder.

132731. Kalyan Kumar Banerjee. Improvement in or relating to concrete decks. Method of constructing the deck includes the steps of placing a plurality of pre-cast concrete ribs on supports each such rib being provided with recess or like notch along its length and with a reversed taper; arranging a number of pre-cast blocks on said pre-cast ribs, the said block being shaped to provide a V-shaped space; pouring in-situ concrete over initial surface; and allowing the said concrete to harden.

132732. Void.

132733. RCA Corporation. Method for making transisters including base sheet resistivity determining step. Comprising the steps of diffusing a plurality of separate emitter regions of one conductivity type into base layer from the surface of the semiconductor wafer, diffusing an annular region of one conductivity type into base from layer said surface to the same depth as the emitter regions; determining the sheet resistivity of said base layer between the annular region and collector layer; and separating the wafer into a plurality of transistors each transistor including a portion of collector and base layers at least one of said emitter regions.

132734. Brico Engineering Limited. Fuel injection systems. (September 7, 1970). One electromegnetically operable fuel injection valve, a pulse generator circuit which includes a timing circuit for controlling the duration of the pulses means for supplying at least one voltage which is functionally dependent upon at least one operating parameter of the engine to the timing circuit to control the pulse duration, trigger means arrange to initiate the pulses at a frequency dependent upon the rotational speed of the engine, and means for producing further pulses for energising the valve, producing further pulses for energising the valve, when acceleration of the engine is required whereby additional fuel is delivered through the valve to enhance acceleration.

132735. Colgate-Palmolive Company. A single phase, stable, clear, heavy duty liquid detergent. Comprises major detergent constituent a material having formula $RO(C_2H_4O)n$ H, a minor proportion of a normally partially water insoluble fluorescent brightener system, water and lower monohydric alcohol with the proportions of fatty alcohol-ethylene oxide condensation product detergent.

132736. USS Engineers and Consultants Inc. Method for preventing high-temperature blistering of copper coatings electrodeposited on copper substrates. Prior to plating, the surface of the article is dissolved electrochemically or chemically to a depth sufficient to decrease the surface oxygen content to a level approaching that of the copper base metal, the depth of dissolution for a service temperature greater than 1100°F is at least 0.12 mils.

132737. Girling Limited. Improvements in and relating to automatic adjusters. Comprises two members in non-reversible screw-threaded interengagement, rolling elements circumferentially located with respect to one of said members, means for applying axially directed force to said rolling elements.

132738. The Firestone Tire & Rubber Company. Tire and method of building same. A tire comprising (a) a body portion having rubberized reinforcing cords, (b) inextensible beads anchoring the margins of said body portion, (c) sidewall and tread portion radially outwardly of said body portion and (d) a rubberized bias-cord stabilizer structure, having a long radius of curvature, radially inwardly of said tread portion, said stablizer structure comprising :(a) two folded margins, (b) a width close to that of the shoulder width of said tread and (c) cord angles which, measured with respect to the tire rolling axis, increase from the center of the stabilizer structure towards the folded margins.

132739. Void.

132740. Void.

132741. Sevenska Cellulosa Aktiebolaget. Method of recovering chemicals in waste liquors and apparatus for carrying out the method. Comprising cooling the pyrolysis product to a temperature of 15—500°C. immediately after the pyrolysis, by direct heat exchange with water injected into said pyrolysis products, separating the cooled pyrolysis products Cascade Scrubbers into solid residue products and gaseous products, the sodium carbonate being dessolved in water and reacted with a portion of the hydrogen sulfide in the gaseous pyrolysis product and recirculating the soda containing sulfide to a causticizing plant.

132742. V. Berthelsen Industrial Commercial Company A/S. A process for preparing a food supplement. Wherein substantialy neutral, physiologically acceptable, readily dissolvable salts of sodium, calcium, potossium and magnesium ore combined in such amounts that the alomic ratios of Na : Ca : K : Mg ore about 7—17 : 33 68--86 : 0.5—3.

132743. The Wheelabrator Corporation. Regulating valve for magnetic materials. Comprises an interior wall an assembly comprising a permanent magnet and an electrical coil associated with said valve, wherein the spacing between said interior wall and the exterior surface of the assembly varies between a minimum and maximum dimension.

132744. A. E. Staley Manufacturing Company. Soybean fractionation by solvent extraction. Comprises extracting the lipids from a vegetable seed material with a misture of a hydro carbon and monohydric alcohol separating the linid miscella from the residual material extracting H_2 soluble constituents from the residual material with an aqueous alcohol and separating the aqueous miscella to give a vegetable seed protein concentrate.

132745. Stotz & Co. Method and apparatus for producing a stiffening ply for parts of articles of clothing. A thermoplastic substance is applied in the form of powder to a flat support material by filling the openings of a stencil transferring the powder to the support material and heating the powder.

132746. N. V. Philips' Gloeilampenfabriken. Improvements relating to ferric cores. (September 2, 1970). A magnetic core of material based on a manganese-zinc ferrous ferrite containing tin and optionally titanium in the crystal lattics having a composition within the range defined by the following limit values of the molar percentages of metal oxides : 24—40 mol per cent MnO, 5—24 mol per cent ZnO, 41—48.5 mol per cent Fe_2O3, 3-7 mol per cent FeO, 1-4 mol per cent Sn2, 0-5 mol per cent TiO2.

132747. Void.

132748. Farbwerke Hoechast Aktiengesellschaft Vormals Meister Lucius & Bruning. Process for wet grinding of pigments. A process for wet gringing of pigments such as this indigo pigments, preylene tetracarboxylic acid pigments, dioxazine pigments, phthalicyanine pigments, quinacridones of azo pigments comprises effecting the grinding in the presence of an aqueous base as herein described.

132749. Sankyo Company Limited and Ube Industries Ltd. Process for the preparation of N-substituted tetrachlorophthalamic acid derivatives. Comprises reacting tetrachlorophthalic anhydride with an amine.

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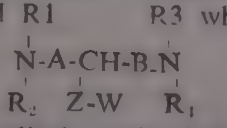
132750. Imperial Chemical Industries Limited. Process for the manufacture of leucauramine derivaties. September 4, 1970. comprises reacting a compared R1 R3 where



$$\underset{R_2}{\overset{R1}{N}}\text{-A-}\underset{Z\text{-}W}{CH}\text{-B-}\underset{R_1}{\overset{R3}{N}}$$

R1, R2, R3, R4 stand for H, alkyl, aralky1. cyclealky1 or aryl or a divalent organic chain, A and B are 1, 4 arylene residues, Z is O or S and W is H or alkyl; with an amine.

132751. Imperial Chemical Industries Limited. Spirit-reproducing carbon papers. (September 4, 1970). Comprises a support material carrying a substantially colourless coating containing a leucauramine derivative.

132752. Imperial Chemical Industries Limited. process for the manufacture of leucauramine compounds. (September 4, 1970). Comprises reacting Michlers Hydrol with an amine wherein the compared and the amine together contain 1,2 or 3 carboxyl groups.

132753. Imperial Chemical Industries Limited. · Process for the manufacture of leucauramine derivatives (July 26, 1971) Comprises reacting N-(2 or 4 carboxyphenyl) leucauramine with a group II A metal hydroxide, alkoxide, carbonate, bicarbonate or a nitrogenous base.

132754. International Business Machines Corporation. A method of applying electrostatically attractable thermoplastic toner particles to the surface of a photoconductive member. Comprising applying the toner particles in admixture with particles of an organic polymer, the surface energy of the polymer particles being lower than that of the toner particles and the average size of the particles being less than that of the toner particles.

132755. Hindustan General Electric Corporation Limited. Fuse bridges. Comprises cover member, base member, a cavity in each member, a vent hole in one of the member in said cavity, grooves with asbestos, two toys having means to connect fuse elements.

132756. Void.

132757. Alrac Corporation. Shaped article from nylon-4 and method for making the same. A shaped article of nylon-4, such as herein described which comprises a plurality of nylon-4 units self-bonded together in an integral structure, the self-bend having been accomplished by drying under pressure said plurality of water swollen nylon-4 units at a temperature significantly below the melting point of the nylon-4.

132758. Alrac Corporation. Process for the production of polymers of 2-pyrrolidone. [Addition to No. 128333]. comprises polymerizing 2-pyrrolidone in the presence of alkaline polymerization catalyst and an adduct of carbon dioxide and a lactam salt.

132759. Takeda Chemical Industries, Ltd. Process for separating citric acid from an aqueous solution containing citric acid and L(+) isocitric acid. Comprises adding sulphuric acid to an aqueous solution of citric acid and L(+) isocitric acid, concentrating the solution to crystallize citric acid from the solution.

132760. Void.

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132761. Council of Scineitific and Industrial Research. Improvements in or relating to electrophosphating process for the production of phosphate coating on steel. Comprises introducing two end electrodes in an electrolytio cell containing sodium phosphate solution and introducing the item to be coated in between the electrodes and passing the current in the bipolar arrangement in the range of 3mA/Sq. cm. to 50 mA/Sq.cm. for 15 to 45 minutes.

132762. Council of Scientific and Industrial Research. Production of isobutyraldehyde from isobutylalcohol. Characterized in that for one mole of iso-butyl alcohol, 0.33 moles of sodium dichromate and 1.33 moles of sulphuric acid (sp. gr. 1. 74) are employed in the reaction.

132763. Council of Scientific and Industrial Research. Improvements in or relating to an earth auger. Comprising a removabde auger list of cylindrical steel bar with pointed end having helical projected blades uniform pitch with bottom radial edge sharpened to out soil.

132764. Kanta Mohan. A capacitor discharge ignition unit for use in automobiles, motor cars or the like. Including a bulb holder and cover defining an enclosure and a mounting plate formed integrally with said cover.

132765. John Wyeth And Brother Limited. Process for the preparation of piperidine derivative. Comprises reacting corresponding piperidine derivative with the corresponding alkylating or alkylating agent.

132766. Universal Oil Products Company. Improved hydrocarbon separation process. Process for separating at least one C8 aromatic isomer from a feed stock containing a mixture of C8 aromatic isomers which comprises (a) contacting the said feed with a solid absorbent which selectively removes the desired isomer from the mixture and (b) recovering the absorbed component from the absorbent through desorption step, the improvement which comprises employing as solid absorbent a crystalline alumino sillicate containing barium and potassium cations in a weight ratio of barium to potassium within the range of from about 1 : 1 to about 100 : 1.

132767. Vandervell products Limited. Improvements in or relating to flanged half bearings. (September 25, 1970). Comprising a half liner having flanges at the axial end having attached by projections to slots of halft liner and projection to prevent movement therebetween.

132768. The Norwich Pharmacal Company. A process for preparing pharmaceutical compositions. A process for preparing a composition in pharmaceutical capsule dosage from comprising mixing :

Sodium 1-[5-6 p-nitrophenyl furfurylidene amino]

hydantoin	25-100 mg.
Lactose	126-232 mg.
Starch	20-35 mg.
Talc	10-20 mg.
Magnesium Stearate	5-10 mg.

132769. Void.

132770. Void.

132771. N. V. Philips' Gloeilampenfabrieken. Device for delaying a train of signal samples of an electrical signal. Having in at least several stages the input electrode of th first transistor has been connected to the first capacitance by way of the main current path of a second transistor.

132772. Void.

132773. Void.

132774. Void.

132775. Void.

132776. Void.

132777. Void.

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132778. N. V. Philips Gloeilampenfabrieken. Method of manufacturing a semiconductor device. Characterised in that, after cooling, the doping layer is removed and a metallic contact layer is provided on the doped semiconductor material.

132779. N. V. Philips Gloeilampenfabrieken. Method of manufacturing a semiconductor device. Characterized in that a doping layer is used which comprises a donor for geramanium.

132780. Vinod Murgai. Improvements in or relating to fertilizer distributing mechanisms mounted on agricultural tractors. Comprising a hopper having at least a first and a second auger, and means for providing a drive for said augers the first auger being capable of providing an agitation in a direction opposite to that of the second auger.

132781. Vinod Murgai. Seed planting mechanism capable of being attached to or mounted on an agricultural vehicle. Includes receptive member at least one feed can, a registering or co-operating means consisting of a disc having a single or plurality of pockets for receiving the seeds manually for effecting a selective number of discharges and means for driving said registering means.

132782. Shell Internationals Research Maatschappij B. V. Process for preparing an improved catalyst for producing oxirane compounds by epoxidizing olefins with hydroperoxides. Comprising a solid inorganic oxygen compound of silicon in chemical combination with at least 0.1 per cent by weight of an oxide or hydroxide of tinanium, molybdenum, vanadium, zirconium, or boron, characterized in that the improvement is obtained by contacting the said catalyst prior to use with an organic silylating agent at temperatures between 125°and 450°C.

132783. Bayer Aktiengesellschaft. Process for the preparation of cyclohexanone by selective vapour phase hydrogenation of phenol. A process for the preparation of cyclohexanone by selective catalytic hydrogenation of phenol in the vapour phase at normal pressure or slightly elevated or slightly reduced pressure, wherein the catalyst, which contains palladium, is brought to a reaction temperature of 100°C to 350°C and a charge of 0.1 to 10 kg of phenol per litre of catalyst per hour is added to the reaction mixture characterised in that the carriers used for the palladium catalyst are alumina spinel as hereinbefore described.

132784. Joseph Lucas (Industries) Limited. Electrical Switches. (October 24, 1970). Includes a conductive bridging member movable to bridgefirst and second contact posts in response to movement of rotor into second angular position from first anular position. said bridging member being including a pair of limbo adapted to serve definite purpose.

132785. Filipe Neri Fernandes. watch supporting device being a type of bracelet. Comprising two straps, one strap adapted to be connected to one end of a watch and the other to the other end, one if strap being longer than the other, being means at free-end of each strap end of longer strap being passed through the holding means of the shorter strap and the other end of the longer strap being passed through the holding means of the same longer strap.

132786. Void.

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132787. Void.

132788. Void.

132789. Void.

132790. Void.

132791. Jayant Narayan Gadre. A zero phase sequence relay to protect a three phase induction motor. Comprising a three limbed relay core coil having a coil and an armature operating a normally closed contact connected to no volt coil of a starter the coils of the relay arranged in star are connected to the motor supply terminals with the star point being connected to the earthened casing of the motor.

132792. USS Engineers and Consultants, Inc. An improved method of hot rolling with simultaneous lubrication of the hot steel workpiece being rolled. Characterised in that spraying the atomized lubricating oil within size range of 150 to 250 microns directly onto the hot workpiece surface.

132793. Concrete Limited. Improvements in and relating to method of making a concrete casting. (September 11, 1970). Comprising forming a foamed synthetic plastics core by foaming synthetic plastics material in a flexible wrapping while constrained to the desired cross section or shape to produce a wrapped flexible shape-retaining body, locating the core in a mould pouring wet concrete around the core and removing the cast core-containing concrete from the mould.

132794. Erdolehemie Gesellschaft mit beschrankter Haftung. Process for preparing acrylonitrile. (April 26, 1971). Process for the preparation of acrylonitrile in which propylene is reacted with ammonia and molecular oxygen or air on a supported catalyst at a temperature of from 400°C to 500°C under a pressure of from 1 to 4 atmosphere in a reaction time of from 5 to 15 seconds and an oxygen concentration of less than one volume per cent is maintained in the gaseous reaction product.

132795. Void.

132796. Hikoji Noguchi. Improvements in or relating to a plastic tray for eggs. Plurality of cavities for receiving eggs therein which are drawn up crosswise in lines; the cavities being shaped as upset truncated cones having at their bottoms circular recesses, projections provided in the middle of each four adjacent cavities and shaped upright truncated cones having at their top surfaces convex projections.

132797. S. S. Jain. Oscillation controlling cum automatic fan. Comprising a cam marked with angles ranging from 0° to 360° for setting the desired angle and a device which automatically switch "on" and "off" the fan when warmness and coldness is felt.

132798. Phillips Petroleum Company. Process for the preparation of propylene copolymers. Comprises contacting propylene and ethylene in the presence of a catalyst formed by mixing diethylaluminum chloride titanium trichloride and 4—10 mole per cent of triphenyl phosphite based on Ticle$_3$ at 50 per cent—145°.

132799. Texaco Development Corporation. Catalytic cracking of naptha. Comprises passing a naptha stream and a zeotite cracking catalyst through a first elongated reaction zone under naptha cracking conditions, discharging the effluent from said zone into a catalyst phase, separating a hydrocarbon fraction, passing the fraction from and a zeotite cracking catalyst through a second elongated reaction zone and discharging the effluent in a catalyst phase.

132800. Ramji Dass Tikmany. Tea sorting plant. Comprising a ball removing machine discharging the tea leaves into a fibre removing machine which in turn discharges the tea after fibre removal onto a tea sorting machine and a winnower fan.

132801. Ramji Dass Tikmany. Improvements in or relating to tea sorting machines. Comprising a plurality of sieves of different mesh sizes arranged such that two adjacent sieves overlap.

132802. Ramji Dass Tikmany. Improvements in or relating to ball and finest C. D. removing machines used in tea industry. Comprising a first sieve means for removing the balls present in the leaves and a second sieve means for removing the finest C. C. from the tea leaves, separate means for reciprocating and vibrating said sieve means.

132803. Bracco Industria Chimica Societa per Azioni. Process for the production of new triiodophenyl alkyl ethers. A 3-acylamino-2, 4, 6-triiodo phenol is etherified by the reaction with a reactive 3-alkoxy-2-alkyl propionic acid derivative.

132804. Cabot Corporation. Black-pigmented halogen-containing vinyl resin composition. A black-pigmented halogen-containing vinyl resin composition comprising a hologen-containing vinyl resin and between about 0.1 and between about 0.1 and about 5 weight per cent thereof of an oil furnace carbon black having a BET-N surface area of less than about 350^2m^2/gram, a Nigrometer scale value of less than about 81.5, a dispersion rating of greater than about 80 per cent and a dibutyl phthalate oil adsorption value of between about 40 and about 150 lbs/100 lbs.

132805. Stauffer Chemical Company. Method for their preparation of substituted phthalimide derivatives. Comprises reacting a nitro substituted phthalic anhydride with an alkylamine in presence of a solvent, reducing the reaction product to an aminosubstituted alkylphthalimide and acetllating the product.

132806. Montecatini Edison S.p.A. Process for preparing S-benzyl-N. N-disec. butyl thiocarbamate. Process for preparing N-N-disec. butyl-S-benzyl thiolcarbamate comprising reacting disec-butyl carbamoyl chloride with benzyl mercaptan in the presence of HCl acceptors.

132807. Director, Indian Institute of Technology, Bombay, Mr. Manmohan Swaroop Agarwal, Lecturer, Indian Institute of Technology, Bombay and Mr. Subramanium Venkatramani, Indian Institute of Technology. Bombay. Improvements in and relating to electrical protective relays. Comprising disc-shaped rotor spiral springs, winding, a pair of contacts magnetic stator spindle, winding is connected with two insulated leads for connection with external terminals.

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132808. F. Web. A filter for cigarettes, cigars, cheroots, pipes and the like. Comprises a non-forous core, wrapped coaxially in a thin paper wrapper, and a packing of absorbent material provided in the annular space between non-porous core and paper wrapper for absorbing viscid substances from the smoke drawn there through.

132809. Dr. Santosh Kumar Gupta. A process for the conversion of mica into pulp suitable for making micapaper and other materials. The mica scrap or mica waste being converted into small pieces are preheated, immersed into two solutions, first and second, being stirred and agitated slowly in the second solution and then washed and sized.

132810. Union Carbide Corporation. Adsorption purification process. The removal of compounds present as impurities in hydrogen and hydrocarbon streams and more particularly to the purification of these streams by selectively adsorbing the impurities on zeolitic molecular sieve adsorbents.

132811. Pfizer Inc. Press for preparing 2-substituted-5-sulfamylbenzoic acids. (April 19, 1971). Comprising reacting an amine with substituted sulfonylbenzoic acid.

132812. Ugine Kuhlmann. Permeable unit for supporting a reagent or a catalyst in the cause of a chemical or physical reaction. A permeable unit for supporting a reagent or a catalyst in the cause of a chemical or physical reaction comprises a latticed support in the form of an articulated cloth consisting of a plurality of helices of refractory metal alloy wire.

132813. Bayer Aktiengesellschaft, formerly known as Farbenfabriken Bayer Aktiengesellschaft. A process for the production of 2-phenyliminopyrrolidines or salts thereof. Condensing an appropriate arylamine with a corresponding pyrrolidone in the presence of an agent splitting off water.

132814. B. R. Garia. Chopper for vegetables and the like. Comprising a blade fixed on a carrier and guided through the slots of a guide inside a housing, and characterised in having a spring loaded indexing finger attached to the carrier by a pin, one projected part of the indexing finger is arranged to mesh with the teeth provided at the inside top of the housing near the spindle.

132815. Void.

132816. Trilok Chandra Goel. A device for fastening a transformer to sub-station structure. Comprising a rod threaded at both ends and having an upper and lower limb with five right angle bends in between the said limbs such that in final shape the middle portion of the rod forms an open rectangle in one plane with three complete sides and one incomplete side beyond with the two limbs extend.

132817. Atul Amritlal Shah. Improvement and modification in relation to manufacturing of hinges. Characterised by that when the hinge is opened out to lie on a flat surfaces, then those portions of each of the two flaps in which are formed the securing holes are not axial with each other.

132818. Void.

132819. Void.

132820. Void.

132821. VACLAV Frank FAIT. Improvements in or relating to packing boards and containers made therefrom. A packing board comprising at least one layer of corrugated board with hessian affixed thereto and at least one second layer of kraft paper or aluminium foil bonded to the first layer.

132822. Sigmund Bereday. A method for modifying the surface of an aluminium article and product therefor. Characterized by forming an active hydrated amorphous layer of aluminium oxide integral with aluminium surface and then contacting the surface of the said layer with organic compound whereby to produce an organic film chemically bonded to aluminium surface at the bonding interface of this film.

132823. Void.

132824. GAF Corporation. An qudio-visual device having means for automatically resetting a tone arm. Comprising a tripping mechanism including a member movable back and forth between first and second positions, which member serves to actuate the tripping mechanism when in its first position, means mounting said member for being engaged by an element on the transparency holder and for being moved thereby from its second position to its first position.

132825. Farbwerke Hoechst Aktiengesellschaft vormals Meister Lucius and Bruning. Process for the manufacture of white or colour resists under phthalocyanine dyestuffs. Treating the material with a printing paste containing the phthalocyanine dyestuff precondensates and a resisting substance.

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132826. Rhone-Poulenc S. A. Apparatus for the fractionation of a liquid mixture. Comprises two compartments separated by a membrane obtained by treating a film comprising at least one copolymer of acrylonitrile and an ionic or ionisable olefinically unsaturated monomer.

132827. Solvay and Cie. Process for the polymerisation of olefins. Polymerizing in the presence of a catalytic system comprising an organo metallic compound of the metals of the groups Ib, IIa, IIb, IIIb and IVb and catalytic element obtained by a reacting a halogenated alumina with a derivative of metal of groups IVa, Va and VIa.

132828. Solvay and Cie. Process for the polymerisation of olefins. Comprising polymerizing -olefins in the presence of a catalytic system comprising an organo-metallic compound of a metal of groups Ia, IIa, IIb, IIIb and IVb of the Periodic Table and a catalytic element obtained by reacting an oxygenous compound of a divalent metal with a halogenating agent.

132829. Solvay and Cie. Process for the polymerization of olefins. Polymerizing -olefins in the presence of a catalytic system comprising an organometallic compound of a metal of groups Ia, IIa, IIb, IIIb and IVb and a catalytic complex containing divalent metal (M) metal of groups IVa, Va and VIa (T) and halogen (X) and the ratio $R = x/m + t$ is higher than 0.5, x, m, and t being the quantities of the above said X, M and T respectively present in the complex in gram equivalents.

132830. Solvay and Cie. Process for the polymerisation of olefins. Polymerizing -olefin in the presence of a catalyst system comprising an organic-metallic compound and a catalytic element obtained by reacting an oxygenous compound of a divalent metal with a fluorinating agent and a divalent of a metal of groups IVa and VIa the atomic ratio of fluorine/divalent metal of the product of reaction being greater than 1.

132831. Void.

132832. USS Engineers and Consultants, Inc. An assembly for attachment to a bottom-pour vessel for controlling flow of liquid through a nozzle. Comprising a pair of rails adapted to give slidable support for separate blank and orifice gates, reciprocable propelling means fixed at one end of said rails, ram means connected to propelling means and gate pulling means attached to said ram means.

132833. Ciba-Geigy AG. Process for the manufacture of new disazo pigments. Characterized by coupling the diazonium salt of 2-aminoterephthalic acid dimethyl ester with 2-chloro-5-methyl-1, 4-bisacetoacetyl-aminobenzene.

132834. Wieland-Werke Aktiengesellschaft. A device in a pipe rolling machine for insertion of pipes. For insertion and forward displacement of the pipes in the axial direction, we axially parallel rolls located opposite to each other driven in opposite directions and having their axes of rotation at right angles to the pipes are provided.

132835. Wieland-werke Aktiengesellschaft. Process for rolling ribbed tubes. In the beginning of the operation and during the setting of the rolling discs against the tube surface, the rotatable speed of the rolling discs is reduced and at the end of the setting operation is again increased to the optimum RPM.

132836. Wieland-Werke Aktiengesellschaft. A device for forming screw shaped ribs on tubular work pieces. Pistons of the respective work cylinders and coupled to each other in pairs by means of mechanical gear transmissions and such as to have a total transmission ratio of 1:1.

132837. Pictorial Productions, Inc. A process of preparing an injection moulded thermalplastic article having an integral mirror surface and article produced thereby. Comprises placing the reflective foil in the mold cavity with the substrate layer facing the interior, filling the mould cavity with a thermoplastic resin, allowing the resin to cool and removing the finished reflective article from the mould, the protective layer and bright metallized layer present in the reflective foil become smooth during injection moulding and thereby providing the mirror surface.

132838. Instranetics. Inc. Receiver for disposable surgical implements. A receiver for disposal surgical implements, comprising (a) a supporting pad of uniform thickness including two similar portions between a coplanar position and foldable in mutually confronting position (b) and means such as magnet elements provided on the mutually confronting surfaces of the said two similar portions of the supporting pad.

132839. Void.

132840. Koninklijke Nederlandsche Hoogovens En Staalfabrieken N. V. Process and apparatus for the manufacturing of roasted, baked or sintered ore pellets. Characterised by cooling the roasted pellets to a temperature not exceeding 60°C screening the cooled pellets and moistening the screened pellets to a water content of 2·5% by weight.

132841. Koninklijke Nederlandsche Hoogovens En Staalfabrieken N. V. A method for the manufacturing of baked ore pellets. During this method parts are separated from the flow of material in the several treatments namely of formed ore pellets of different composition all the flows of material thus separated being collected and returned to the grinding plant.

132842. Scandia Packaging Machinery Company. A method of wrapping packages and an assembly for feeding web materials for wrapping packages. Comprises means for moving the web along a predetermined path means to form uncreased folds and pleat forming means.

132843. Void.

132844. The South India Textile Research Association. Improvements in or relating to the open-end spinning of textile yarns. A device for open-end spinning yarns from textile fibres comprising a spinning rotor to which fibres are fed in an air stream, said spinning rotor being closed at one end and open at the other end and having a wall extending between the open and closed end to provide a 'V' shaped fibre collecting surface, the said rotor having air pumping holes at the closed end thereof to induce suction inside the rotor for feeding the fibres.

132845. Void.

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132846. Council of Scientific and Industrial Research. Invention relating to a new method of etching of super purity aluminium for use as electrodes in aluminium electrolytic capacitor. The film being etched at a temperature of 98 to 100°C and at a current density of 0.16 to 0.64 A/cm^2 wherein an ultrasonic vibration of frequencies of from 40 to 200 KHZ is passed.

132847. Council of Scientific and Industrial Research. A process for the preparation of sodium bichromate. Characterized in that the conversion of sodium chromate to sodium bichromate is brought with Hcl and the sodium bichromate is crystallized by fraction of crystalization.

132848. Void.

132849. Amulya Mohan Dhar. Garden tiller. Comprising a frame structure on three wheels, a pair of lever arms with pedals, a pair of cranks a pair of fly wheels, a colter with shank and adjusting means, a steering means and a seat.

132850. Inventa AG fur Forschung and Patentverwertung. Process for the preparation of cyclohexane conversion of 2-5% at 175-200°C in 3-15 minutes reaction time and hydrozenating oxide oxidate obtained, catalytically at 140-160°C with removal of heat.

132851. Void.

132852. Colgate-Palmolive Company. Heavy duty liquid detergent. Comprising water soluble anionic synthetic organic detergent salt of formula RO $(C_2H_4O)_n$ SO_3M, wherein R is fatty alkyl, n is from 2 to 6 and M is a salt forming ion, nitrilotriacetate builder, hydrotrope, water soluble silicate and aqueous solvent medium.

132853. Void.

132854. Toyo Engineering Corporation. Process for manufacturing gaseous mixtures rich in hydrogen. Comprises heating feed stock with steam in presence of catalyst consisting of silica free aluminium oxide and optionally 10 to 60 wt. per cent of at least one silica free alkaline earth oxide selected from beryllium oxide, calcium oxide and strontium oxide.

132855. Void.

132856. Vsesojuzny Nauchno-Issledovatelsky Institut Istochnikov Sveta. Automatic apparatus for sealing and evacuation of electro-vacuum devices. Comprising a continuously moving chain conveyor having a chain running around at least two sprockets, the chain of said conveyor supporting heads adapted to hold component parts of a device.

132857. Koninklijke Nederlandsche Hoogovens En Staalfabrieken N. V. Process and apparatus for the controlling of the conveyance of loose bulk material. Materials are conveyed and buffered by a single belt conveyor having a non-variable length, the velocity of which is controlled in dependency upon the quantity of material conveyed per unit line by belt conveys at the delivery station.

132858. Koninklijke Nederlandsche Hoogovens En Staalfabrieken N. V. Process for the manufacturing of ore pellets. A moist mixture consisting of fine ore powder, adhesive about 1 per cent, and about 8 per cent water is formed into pellets by rolling whereupon pellets are baked, characterised in that the mixture is obtained by first of all mixing very fine ore powder having a moisture content of less than 0.1% and a particle size of less than 90 to 0.05 to 1% of powdered adhesive by subsequently adding 8 to 9% of water to the mixture at a temperature of 50°C—90°C.

132859. Morinaga Milk Industry Co., Ltd. Process for preparing a lactulose powder. Mixing an aqueous solution which is below 7.0 in pH and contains above 60% of lactulose in total solid content and an aqueous solution having dissolved above 0.3% based on the weight of said lactulose of konnyaku powder therein and drying the resulting mixture.

132860. F. N. Kolameir. Marking instrument. (September 11, 1970). Each marking unit having a main body member and marker means connected to and projecting axially from one end of the main body member, and market means connected to and projecting positively co-operating with main body member of the first of the units partially projecting from the front end of the casing, a stop surface on the main body member of each marking unit intermediate its ends.

132861. Schubert & Salzer Maschinenfabrik Aktiengesellschaft. A method and apparatus for producing of staple fibre yarn. The improvement comprises the sliverlet being subjected to negative drafting after the positive drafting and simultaneously being twisted in the negative drafting zone.

132862. Void.

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132863. Void.

132864. Corning Glass Works. Control systems for electric furnaces. A control system for melting tanks or furnaces containing a bath of molten material, comprising first and second energy supply means such as electrodes or the like for first and second positions or zones of the molten bath within melting tank or furnace, first and second, power level and distribution control loops for the energy fed to the first and second energy supply means, respectively, and a third temperature control loop, for operating in conjunction with the second, power control loop for controlling the bath temperature.

132865. The Dow Chemical Company. Process for the preparation of an impact-type styrene polymer. Comprising polymerising to phase inversion feed stream of solution of rubber reinforcing agent in polymerisable alkenyl aromatic monomer passing in elongated reactor with plurality of reaction zones same agitating and characterised in removing portion of partially polymerised feed stream subsequent to phase inversion and introducing it into location prior to phase inversion and maintaining rate of removal and introduction at a rate to have desired rubber particle size.

132866. Dunlop Holdings Limited. Pneumatic tyres. (September 11, 1970). Comprises a breaker assembly including at least one breaker having folded edges said breaker consists of at least one folded strip.

132867. Allis-Chalmers Corporation. Improved process of reducing mineral ores. Reducing metallic oxide and sulfide ores to a lower state of oxidation in a generally horizontal rotary kiln having at least a zone thereof provided with posts spaced around the circumstance of the kiln and opening into the interior of the kiln.

132868. Joseph Lucas (Industries) Limited. Electrical switches. (July 8, 1969). [Addition to No. 125232]. [Divided out of No. 125232; ante-dated to February 11, 1970]. Comprises improvement in the main patent No. 125232, wherein said fixed contacts are defined by respective arcuate conductive regions on printed circuit board.

132869. Void.

132870. Void.

132871. Sham Sundra. A tube holder. Comprising a bracket to be held to a surface, a cap holder rotatably disposed within the bracket, said cap holder consisting of a shell and having shape similar to the shaping the tube.

132872. Void.

132873. Olen Holdings Pt. Ltd. A hand tool for turning or screwing. Handle is rotatable about the end of the shaft on which it is mounted and the shaft is so shaped that the axis of rotation of the handle and the axis of rotation of the working head converge in the direction away from the latter to intersect at an acute angle.

132874. Void.

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132875. Void.

132876. Chinoin Gyogyszer-Es Vegyeszeti Termekek Gyara RT. A process for the preparation of new theophyline isobutyrate salts. 7-[2-hydroxy-3-/N-methyl-2-hydroxyethylamino/-propyl]-theophyline is reacted with 2-4/chlorophenoxy/-isobutyric acid.

132877. Void.

132878. Union Carbide Corporation. Process for separating normal paraffins from admixture with non-normal hydrocarbons. Comprises passing the mixture through a fixed bed of a zeolitic molecular sieve adsorbent, thereafter isothermally and isobasically passing through the bed a quantity of non-sorbable purge gas and thereafter continuing the flow of non-sorbable purge gas through the bed to desorb at least a major portion of normal paraffins and flush same from the bed.

132879. Colgate-Palmolive Company. Dentifrice compositions. (September 21, 1970). Comprising a dentally acceptable substantially water insoluble polishing agent in a gel vehicle having substantially the same refractive index as said polishing agent.

132880. United States Borax & Chemical Corporation. Method of preparing alkoxy dinitroaniline compounds. (July 26, 1971). Comprises reacting in substantially equimolar amounts an alkali metal alkoxide or an alkali metal thioalkoxide and the 3-halo-2, 6-dinitro aniline corresponding to the desired compound.

132881. Void.

132882. Void.

132883. Void.

132884. Nizhnetagilsky Ordena Trudovogo Krasnogo Znameni Zavod Plastmass. A process for producing esters of monohydric alcohol. Characterized in that the elimination of acidic impurities is effected by dispergation of the esterification product into drops in aqueous caustic alkali solutions of a concentration selected within the range of from 2 to 20%.

132885 Void.

132886. Mrs. Sarla Paul. A device for purposes of accurately viewing a distant object. Comprising a housing an object such as spotting disposed within said housing a first lens and second lens the first lens being an eyepiece lens. the second lens being provided between said object and first lens and such that the virtual image of the object provided within said housing is produced at infinity.

132887. Void.

132888. Schubert & Salzer Maschinenfabrik Aktiengesellschaft. A feeding device for fibre sliver spinning apparatus. Comprises a draw-in-roller a holder for the draw-in-roller a normally stationary member and a resilient cantilever arm.

132889. Void.

132890. Nihon Spindle Seizo Kabushiki Kaisha. Infinite speed regulator. Wherein sheaves are mounted in opposite relationship in combination on a shaft so as to form a V-groove for a belt so that an effective diameter of the sheaves can be baries by sliding one of the sheaves in the axial direction.

132891. The Metal Box Company Limited. Closures for containers. (September 16, 1970). Having a layer of plastic material which has a porosity when the closure is hermetically sealed to the container, air can pass through the container at a rate of 0.3 to 0.7×10^{-7}cc/cm^2/sec/cm Hg.

132892. Void.

132893. Void.

132894. Council of Scientific and Industrial Research. Improvements in or relating to lithographic aluminium plates. A process for the surface preparation of aluminium lithographic plates for printing from presensitised diazo resin coating in which the cleaned aluminium surface is subjected to anodic treatment in sulphuric acid and then in phosphoric acid at different times using direct current with a view to increasing the pore number as well as pore diameter of oxide film on the surface of aluminium in order to make very good bonding between the resin coat and the anodised surface.

132895. Council of Scientific and Industrial Research. Improvements in or relating to electrodeposition of alumina over metals and non-metals (Suitably made conductive) for decorative finishes. Characterised in that a bath comprising an alkali metal aluminate where any one or any of the combination of acids like boric acid, acetic acid, oxalic acid, tartaric acid and a complexing agent like sodium gluconate and sorbitol are present.

132896. Void.

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132897. Void.

132898. Void.

132899. Void.

132900. Bayer Aktiengesellschaft. Formerly known as Farbenfabriken Bayer Aktiengesellschaft. Process for the preparation of quinazolonediurethanes. Comprises reacting 2-(3'-aminophenyl)-3-phenyl-6-amino-4-(3H)quinazolone with glycol carbonate.

132901. Everest Packaging Corporation. Improvements in or relating to box or carton. Characterized by that the folding are made by two opposite wall at each end of the carton with a triangular shape creasing comprising one box casing at the folding edge and two inclined creasing meeting the box creasing at its two ends and intersecting the extreme edge wherein the other two opposite faces are provided only with box creasing.

132902. S. S. Jain and Urmila Jain. An electrically operated locking device for door. Comprising a spring loaded bolt mashing with a bolt receptacle and connected to a disc having two notches, a pin attached to a mild steel strip and engaging one of the said notches and adapted to be pulled by an electromagnet to detach the pin from the notch for unlocking the door.

132903. Honeywell Inc. Hysteresis motor power supply circuit. Comprising a detection circuit for detecting whether or not the rotor is overmagnetised and an oscillator and means which in response to the oscillatory output applies a greater current to the motor to restore the overmagnetised state.

132904. Farbwerke Hoechst Aktiengesellschaft vormals Meister Lucius & Bruning. Process for the production of fluorescent dyed polyvinyl chloride articles. Characterized by incorporating the unsubstituted thioindigo in PVC and shaping it into aricles.

132905. Void.

132906. Koninklijke Nederlandsche. Hoogovens En Staalfabrieken N. V. a Method and a device for mixing and homogenizing of bulk material. Characterized in that the material during transport to the dumping machine passes through a through flow hopper, from which it is discharged in a constant flow, and the speed of the digging machine is controlled in dependency upon the filling of the hopper.

132907. The Upjohn Company. Process for preparing the antibiotic lincomycin. Cultivating streptomyces espinosus Dietz. Sp. N. having the identifying characteristics of NRRL 3890 and mutants thereof, in a aqueous nutrient medium under aerobic conditions.

132908. J. H. Fenner & Co., Limited. A method of bonding a surface of polyvinyl chloride to a surface of natural rubber or to a surface of a sulphur modified chloroprene elastomer. Polybutadiene, methyl methacrylate monomer and acrylonitrile monomer in solution are copolymerised and the resultant solution is applied to at least one of the surfaces to be bonded and the surfaces to be bonded are contacted.

132909. Suleman Ismail Rahimtulla Jasani and Sultanali Suleman Ismail Jasani. Umbrella cups. Comprises a circular cap adapted to hold the ends of all the ribs of the umbrella with a centrally located circular opening of a predetermined size in its tip a tubular piece narrowing at its lower end in the size adapted to go into the opening in the top of the cap, a coil spring adapted to be housed without side play inside the tubular piece, another tubular piece adapted to side along the umbrella rod without side play with its lower and spread out to the size adapted to go into the upper end of the tubular piece.

132910. A. E. Staley Manufacturing Company. Improved dye imbibition images. [Divided out of No. 124434; antedated to December 15, 1969]. Treating a substrate bearing a solid, organic layer holding a monolayer of powder particles in image wise configuration the powder particles comprising a solid carrier and dye with vapors of a material which is a solvent for the dye capable of swelling the solid carrier and incapable of swelling the surface of the substrate, molecularly dispersing said dye into carrier and removing the solid organic layer with a solvent.

132911. Void.

132912. Void.

132913. Universal Oil Products Company. Process and apparatus for catalytic cracking of hydrocarbons. Process for simultaneous catalytic cracking of a fresh feed hydrocarbon stream and a catalytic cycle oil which comprises passing said oil into lower portion of reaction vessel containing a catalyst and therein effecting a cracking of said oil at temperature from 500° to 1500°F, the catalyst is maintained as a dense fluidised bed, simultaneously introducing catalyst into a stream of said fresh feed hydrocarbon and passing the mixture of hydrocarbon and catalyst at temperature in the range from 500° to 1500°F.

132914. Void.

132915. Bernard Hooper and John Edward Favill. Two stroke internal combustion engines. (September 19, 1970). Comprising first transfer passage associated with the cylinder and arranged to communicate with the second transfer passage means at a location at or adjacent to one only of the journal bearings of the crankshaft.

132916. John Lysaght (Australia) Limited. Improvement in or relating to lead—zinc wet—flux galvanizing process. (September 25, 1970). Comprising the step of directing the article into the molten lead bath containing aluminium, thence upwardly through a galvanizing pool floating on the lead bath.

132917. Saint—Gobain and device for the manufacture of fibre mats of thermoplastic substances, the gaseous fluid is canalised by means of a shaping device comprising two large surfaces of a generally flat shape, coverging at least over 6 portion of their length.

132918. N. S. Sathaye. A device for locking the supply of fuel gas to the burner of a gas stove. Comprises an electromagnet, a locking lever carried by the armatures the locking lever engaging a notch in a valve rod carried by a knob and a microswitch adapted to be operated by the operation of the rod.

132919. Void.

132920. Industriele Onderneming Waving N. V. Improvements in and relating to a plastic block bag with a valve. (June 7, 1971). Providing such a plastic block bag that the valve flap when the bag is filled is stretched ensuing a faultless saling by keeping the shortest distance between the second longitudinal sealed joints being at least equal to the distance between the lateral edges formed by the inwards folded bottom flap parts.

132921. Fiberglass Resources Corporation. Locking means for adjacent pipe sections. Comprising two coaxially telescoped tubular members having a groove, a key having inserted through an opening in the wall of the female member to the channel defined by the facing grooves and thereby locking the two members.

132922. Dr. Chinmoy Das Gupta. Tunable narrow band microwave filter. Comprising rectangulr waveguide joint, coaxial line, a movable short-circuiting plunger and a probe is characterised in that the entire band of the permissible frequency of the waveguide comprising input output matching by impedance transformers.

132923. N. Ramachandran. A method of preparing toddy suitable for being bottled or canned. Comprises subjecting the toddy to heating at a temperature 60—80°C for 20—40 min.

132924. Roche Ramchand Pardasani. Improvement in or relating to intercommunication set or apparatus. Characterised in that in or along each of two or more communicating lines, a set of series connected switches is provided and at least a switch of each such set of series connected switches is provided in each active station and a set of switches which are included in the said sets of series connected switches when operated to calling positions in any active station cooperate where at least a co-operating switch in calling position causes discontinuity in the common communicating line in which or along which it is provided.

132925. Void.

132926. Esso Research and Engineering Company. A process of chilling a solution of a waxy oil in a liquid normally gaseous dewaxying solvent for crystallizing wax in filterable form. Introducing a solution of waxyoil into a closed chilling zone under pressure.

132927. Void.

132928. Sherritt Gordon Mines Limited. Pump control system. (September 30, 1970). Comprising a pump in communication with liquid in a tank, an hydraulic motor, a closed hydraulic circuit having flow regulating means and a level detector.

132929. Sherritt Gordon Mines Limited. Method for preparing nickeliferous laterite ore mixture for reduction roasting. (October 1, 1970). Comprises providing a mixture of limonite and serpentine particles of size 65 to 325 mesh, drying and dividing ore mixture into two fractions, first fraction larger than predetermined size and containing less than 31.9% of iron and second fraction containing more than 40% iron and continuously combining the two fractions.

132930. Farbwerke Hoechst Aktiengesellschaft Vormals Meister Lucius & Bruning. Process for the manufacture of watersoluble, fibre-reactive disazo dyestuffs, and their metal complex compounds, Diazotizing a corresponding amino dyestuff and coupling with an appropriate coupling component, the components being chosen that the resulting dyestuffs contain 1 to 6 sulfonic acid groups, and if desired reacting the dyestuff with a copper, cobalt or chromium yielding agent.

132931. Taxaco Development Corporation. Process for catalytic cracking of naphtha and gas oil. Comprising passing a naphtha stream and a zeolite cracking catalyst through a first elongated reaction zone, under naphtha cracking conditions passing a gas oil and zeolite cracking catalyst through a second elongated reaction under gas oil cracking conditions, discharging the effluents from said first and second reactions zones into a catalyst phase and recovering a fraction boiling in the range of 100 to 450°F and a fraction boiling below 100°F.

132932. Veb Polygraph Leipzing Kombinat Fur polygraphische Maschinen Und Ausrustungen. Rotary folding apparatus. (April 29, 1971). Wherein the guide rods are arranged directly after collection cylinder two roller levers a compression spring a bolt and a rigid lever.

132933. Veb Polygraph Leipzig Kombinat Fur Polygraphische Maschinen Und Ausrustungen. Apparatus for printing machine. (April 29, 1971). A sheet feeder apparatus for a printing machine including a control apparatus for controlling the blowing of air of the sheet feeder to separate sheet material provided therein, the control apparatus having a device for the control of the blowing air, wherein the device arranged to switch on and off the blowing air of the feeder in synchronism with the speed of the printing machine, includes automatic control means controllable in response to the working speed of the feeder and printing machine, whereby the control means automatically maintains the optimum blowing effect by automatically controlling the adjustment of the pressure or the time duration of the blowing air or of both upon a change occurring in the speed of the feeder and printing machine.

132934. Veb Polygraph Leipzing Kombinat Fur Polygraphische Maschinen Und Ausrustungen. Improvements in or relating to printing machines. (May 5, 1971). A device for the effecting counting and/or switching off operations, especially for printing machines, wherein after both the outlet nozzle directed on to the conveying path and a second outlet nozzle cooperating with a perforated plate provided with one or more slots there is arranged in each case a low pressure normal pressure booster the output signals of which can be supplied to a doubled diphragm relay the signals of which through a pneumo-electric converter influence known means for the switching off of the printing machine.

132935. Voith Getriebe Kg. Single-stage hydrodynamic torque converter. Turbine outlet diameter is 15 to 40% larger than the impeller outlet diameter, maximum thickness of the turbine blades is located approximately at the first third point of the centre line and is about half as large as the radial extent of the turbine blades, the radius of curvature of the heads being about one quarter of maximum thickness.

132936. Saul Greenspan. Apparatus for filtering and collecting solid matter from a smole flow. Comprising a housing aligned with and adapted to be fitted over the end of the smoke stack and open to the atmosphere at the top, a heater at the lower end of the housing for ignition of combustible material carried in the draft of the smoke stream, a filter in the housing at the upper end, a receptacle to collect and store the solid matter.

132937. Cognate with application No. 132662.

132938. Void.

132939. Juan Blas Sitges Menendez Perfecto Martin Sagradu and Alfonso Sanz Alonso. Process and apparatus for separation of metallic zinc. Process for the separation of metallic zinc from residues containing the metal comprising melting and adding to the residue an element selected from aluminium, beryllium, magnesium, calcium, boron or an alloy thereof and agitating the mixture obtained in rotary agitator in which the mixture is driven downwards in the centre of the reactor and upwards adjacent its walls.

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132940. Council of Scientific and Industrial Research A lawn mower. Characterised in that the cutting element consists of chains mounted on a chain holder and the prime mover is coupled to the chain holder through a shaft supported on bearings on the frame.

132941. Void.

132942. Void.

132943. Universal Oil Products Company. Process for separating paraxylene from a mixture of C_8 hydrocarbons. In the separation by crystalline alumino silicate adsorbent the improvements comprises in using desorbent the improvement comprises in using desorbent containing pa a diethylbenzene which if not pure may contain a suitable hydrocarbon or mixture of suitable hydrocarbons.

132944. Marathon Oil Company. Obtaining a predetermined salt concentration within an aqueous solution using micellar dispersions. Comprises (1) contacting brine with micellar dispersion containing a surfactant to form a microemulsion top phase and a bottom phase, (2) separating top phase from bottom phase, (3) effecting a physical or chemical change, and (4) separating the bottom phase of "3" as the water containing the predetermined salt concentration.

132945. Tollemache Compositing Systems Limited. Improvements in ballistic separator pulveriser. Comprising a generally conical container having flails mounted therein for rotation about a substantially vertical axis, means for causing a downdraft of air through the container and a griding section below the conical section.

132946. Etat Francais. Improvements in or relating to propergol or propellant blocks. Block shaped as a cylinder of revolution having a central cavity elongated in the direction of the axis of block, the said block is formed from two propergols having different speeds of combustion intimately coupled in one piece surrounding the central cavity, the more rapidly combustible propergol is in between central cavity and the surface of separation, the other slower combustible propergol occupies the remaining volume of the block, each straight section of the cylindrical portion of the block satisfies the two conditions, (1) limit of the central cavity is an inner contour which is closed and without double point and surrounds the centre of an outer contour and constituting the section of the outer surface and in generally starshaped and (2) the frontier between the two propergols is a curvilinear separatrix which surrounds said inner contour and is contained in said outer contour while not touching either of said two curves and which also has the general shape of star.

132947. Void.

132948. Thyssen Niederrhein GMBH Hutten-Und Walzwerke. Shaft furnaces. Comprises a shaft, charging equipment and a discharging apparatus including a discharge table and a discharger, a horizontal guide track below the shaft month.

132949. Void.

132950. Void.

132951. Void.

132952. Nestle's products Limited. Fish Protein isolate. (September 23, 1970). Treating the fish with alkali in an aqueous medium at 90 to 120°C, removing insoluble matter from the medium, removing the lipids present by liquid-liquid extraction with a solvent for the lipids and recovering the protein from the solution.

132953. Cassella Farbwerke Mainkur Aktiengesellschaft. Process for preparation of basically substituted (1H, 3H)-quinazoline-2-thion-4-one derivatives. [Addition to No. 127120]. Characterised by acylating (1H, 3H) quinazoline 2-thion-4-one derivatives with an alkoxy benzoic acid.

132954. Void.

132955. Void.

132956. Void.

132957. Void.

132958. Kansas State University Research Foundation. Method of preparing high protein wheat flour based bread. Comprising the steps of combining a dough containing a quantity of wheat flour with a protein supplement and then backing to produce bread etc.

132959. Parke, Davis & Company. Process for the produtcion of new pyrazolo [3, 4-e] [1, 4] diazepin-7 (1 H)-one compounds. [Divided out of No. 132959; ante-dated to May 13, 1970]. Characterized in that the corresponding pyrazole compound or a salt thereof is reacted with ammonia.

132960. Parke, Davis & Company. Process for the production of new pyrazolo [3, 4-e] [1, 4] diazepin-7(1H)-one compounds. [Divided out of No. 126649; ante-dated to May 13, 1970]. Characterised in that a corresponding 5-(2-amino-acetamido)-4-aroylpyrazole compound is brought into solution under neutral or alkaline condition whereby it undergoes cyclization forming the corresponding pyrazolodiazepin one compound.

132961. Parke, Davis & Company. Method for the production of new pyrazolo [3, 4-e] [1, 4] diazepin-7 (1H)-one compounds. [Divided out of No. 126649; ante-dated to May 13, 1970]. Characterized in that a carrcsponding to 5 amino-4 benzimidoylpyrazole compound is reacted with a haloacetyl halide compound in the presence of a base.

132962. Uss Engineers and Consultants, Inc. Supporting structure for guide rolls in a continuos casting machine. Characterized in that the cage mounted on swingable arm means by releasable mounting means can be lifted from said arm means, the arm means being secured to fixed support column by hinges for movement of cage between first and second operative positions and releasable locking means provided for retaining the cage in operative positions.

132963. Takata Kojyo Co., Ltd. Method of producing a relatively rigid article. Characterised in that a shaped article is first formed in a collapsible state expanding the article to its desired shape and finally heating the article said article being reinforced by a fibre web.

132964. D. I. Kumar. An improved 'Yo-Yo'. Characterized in that the outer surface of each of the two disces is provided with at least one pair of contacts, the said contacts holding at least one dry cell, the dry cell being connected with one electric bulb, the electric circuit being provided at one point with a break which acts as a switch, at the point of break being fitted one fixed contact and another moving contact.

132965. Void.

132966. Void.

132967. Void.

132968. Void.

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132969. Sherritt Gordon Mines Limited. Improved thickener. (September 30, 1970). Comprising an automatic control system for a thickener including a rake assembly for exerting mechanical pressure as solids sediment layer, control system for adjusting the vertical position of the rake assembly and thus effectively maintaining the load exerted on the rake assembly.

132970. Void.

132971. Kharkovsky Elektromekhanichesky Zavod Imeni 50-letia Velikoi Oktyabrskoi Sotsialisticheskoi Revoljutsi. Method of manufacturing electrotechnical articles. Comprising mixing together iron powder and a thermosetting resin containing a curing agent in vacuo in order to remove air inclusions and thermosetting reaction volatile products batching the resulting composition, rolling the batched composition into flat sheets having a thickness greater than that of finished articles moulding and simultaneously preforming flat sheets to obtain compacted blanks and curing.

132972. Dr. C. Raju. Cigarette case combined with matchbox surface. A container divided inside into two chambers, smaller one for housing match sticks and bigger one for housing cigarettes characterised in that one side of the container is coated with a substance to enable the match sticks to be lighted.

132973. Void.

132974. British-American Tobacco Company Limited. Improvements relating to tobacco-smoke filters and to a method and an apparatus for their production. (October 7, 1970). Wherein a tobacco smoke filter foam material is intermittently injected with one or more additives at intervals while being extruded in rod form.

132975. C. A. Norgren Limited. Fluid control units for insertion in fluid lines. In which inlet and outlet ports of the unit open respectively into oppositely facing external faces in combination with means having ports which register with those of the units means for sealing the ports and means for securing the unit in sealed relation to the coupling means.

132976. Sandoz Ltd. process for the production of polyglycolether compounds. Reacting 1 mol. of a compound of the formula R (H) where R stands for an a-valent radical of an organic compound with ethylene oxide, then with propylene oxide and subsequently with ethylene oxide.

132977. N. V. Philips Gloeilampenfabrieken. Semiconductor device. Characterized in that the strip shaped emitter regions consist of alternately narrower and vider parts, at least two successive wider parts of the strip shaped emitter region being present opposite to two successive wider parts of an adjacent strip shaped emitter region as a result of which a strip shaped base region adjoining the said surface and also having alternately narrower and wider parts is present between adjacent emitter regions, the emitter and region being electrically connected to metal layers.

132978. Norton Company. Method of forming dense microcrystalline sintered abrasive particles. By compacting finely ground refractory material into particles and heating at a temperature between sintering and fusion points in an inert atmosphere.

132979. Void.

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132980. Void.

132981. Void.

132982. Joseph Jayarstnam David. A new type of delivery valve for air or gas compressors or vacuum pumps of the reciprocating type. Comprising a disc valve seating on cylinder top flange and over cylinder bore, the guide for the valve being formed in the cylinder head.

132983. Kalyan Kumar Banerjee. Improvement in or relating to light weight aggregates for concrete. Treating light weight aggregates with a water repellent material or chemical and water repellent material used being silicon.

132984. Void.

132985. Void.

132986. Bhushan Lal Mittal. Process for clarification and purification of juice obtained from sugar cane. Treating secondary juice separately by liming and saturation with carbon dioxide gas, mixing with primary juice and subjecting mixed juice to sulphitation process.

132987. Void.

132988. Void.

132989. Void.

132990. Sherritt Gordon Mines Limited. A device for diverting downward flow of particulate material. (October 1, 1970). Comprises, in combination, upright chute means having a wall with opening, inclined movable gate means diverting material to said opening, second chute means and actuating means for said gate means.

132991. G. W. B. Boilers Limited. Improvements in industrial boilers. (September 22, 1970). Including a combustion chamber, a fluid fuel fired burner, a grate air supply means, feed means, and contact means including a first sensing means and a second sensing means.

132992. Void.

132993. Void.

132994. Void.

132995. Snam Progetti S.p.A. Process for the production of a reducing gas for blast furnace. Preheating a supporter of combustion and mixing it with another preheated fuel so as to obtain partial combustion, and feeding partially combusted gases to the blast furnace.

132996. Void.

132997. Saint-Gobain. Improvements relating to a window pane furnished with electrical conductors serving as antennae. Furnished with antennae in which the conductors are formed in two separate principal branches of different directionality and are connected to a common terminal on the windowpane.

132998. Francis Moreau. Foaming javel water and a method of preparing the same. Foaming javel water characterized in that it consists of a mixture of javel water and a liquid detergent.

132999. Richter Gedeon Vegyeszeti Gyar R. T. A process for the selective separation of vinblastine, vinleurosine and vincristine or the salts thereof. Comprising extratcing with aqueous methanol and subsequent concentration of the extract followed by chromatographic separation.

133000. Industriele Onderneming Wavin N. V. Improvements in insulated pipes. (April 3, 1970). [Divided out of No. 126205; ante-dated to April 14, 1970]. Provided with an external foam plastic layer carrying a covering outer layer and a length of pipe for making this connection.

133001. Tractel Tirfor India Private Limited. Improvements in or relating to lifting jacks and like lifting devices. A lifting device comprising a bar or prop, a carriage member provided for running along the length of the said bar or prop, a working roller which is retained in position by the carriage member and it arranged to rotate therein about an axis extending transversely to the bar or prop, and means for pressing the working roller against the bar or prop.

133002. Fertilizer Corporation of India Limited. Solid State Annunciator. Comprising an Audio signal circuit and visual signal circuits connected to a signal producing circuit, a visual signal circuit and a signal producing circuit, said audio signal circuit comprising or flip-flop circuit connected to the second output terminal of the signal producing circuits an oscillator connected to said flip-flop circuit through a switching circuit, an audio amplifier connected to said oscillator.

133003. Fertilizer Corporation of India Limited. A process for curing epoxy resins. Comprises using as the curing agent an amido-polymine prepared by reacting commercial dehydrated castor oil with polyamine of the formula $NH_2(CH_2H_4NH)_2$ ors H and removing the glycerol and un-reacted amine by distillation under reduced pressure.

133004. Void.

133005. Dyna-Flex Corporation. Plastic relief image printing plate emulsion. Comprises a polyacetal, a polyvinyl alcohol, a dichromated and a plasticizer.

133006. Void.

133007. Miner Enterprises, Inc. Friction draft gear. Comprises an elongated hollow metallic housing closed at one-end and open at the other, resilient means disposed in the housing and seated against the said closed end thereof, at least one set of friction shoes disposed circumferentially in the open end of said housing a wedge member engageable with said friction shoes.

133008. Void.

133009. Void.

133010. Norton Company. A reinforced thermoset resin bonded abrasive wheel. Consists of appropriate proportions of abrasive grains if porous, pores and bond comprising spherical glass particles of suitable dimensions and a thermoset resin.

133011. Frunzensky Politekhnichesky Institut. An encoder for a teaching machine. Comprising a contact-bearing board, whose contacts are electrically connected to the graphic answer input device of the teaching machine, and an encoder board with contacts arranged coaxially with those of the contact-bearing board which is made as a plate of an insulation material, some of the contacts of said boards being separated by an expendable punched card serving as a programme carrier while the encoder board is provided with sockets housing its contacts which are spring-loaded and can shift in the vertical direction.

133012. Frunzensky politekhnichesky Institut. A graphic answer input device for a teaching machine. Comprising successively superimposed parts; a contact-bearing board with contacts electrically connected to the logical unit of the machine; a punched card; a current-carrying plate and a problem blank on which the student is to draft the required drawing, every contact of contact bearing board is connected to the logical unit through two diodes connected separately in the forward direction.

133013. Void.

133014. Cigarette Components Limited. Tobacco smoke filter and method for manufacturing the same. (October 1, 1970). Comprising an air permeable rod of fibres or filaments bonded to each other at their points of contact, having cavities longitudinally displaced relative to one another at least a portion of the cavity walls being air permeable and an axially elongate tubular outer member around said rod.

133015. A. H. Robins Company, Incorporated. Process for the preparation of 2-(p-phenylbenzyl) oxazolines. p-phenyl phenyl acetic acid is reacted with 2-amino-2-methyl-1, 3-propanediol.

133016. Void.

133017. Void.

133018. Void.

133019. Void.

133020. Abbott Laboratories. Process for the demethylation of 3-amino macrolides. Reacting the macrolide antibiotic with halogen, preferably iodine, in the presence of base at a controlled pH.

133021. International Flavors & Fragrances Inc, A process for altering the flavour of particulate grain products. Comprises applying a solution of a flavouring composition containing a corbonyl flavouring material, an edible cold water-insoluble film former and a solvent for the film former, and drying the distributed solution to form a flavour containing film on the surface of the product.

133022. Shell Internationale Research Maatschappij N. V. A process for the decomposition of unconverted organic peroxy compounds present in the reaction product or effluent obtained by the expoxidation of olefinic compounds. Characterized by contacting reaction product or effluent with a catalytic composition having a specific surface area in the range of from 10 to 800°m^2 and consists of (1) an inert inorganic suppart and (2) one or more metal oxides.

133023. E. I. Du Pont de Nemours and Company. Process for preparation of-6, 6-difluoro-11 β-16α, 17α- -trihydroxy-4-pregnene-3, 20 dione. Characterized in that 6, 6-difluoro-16 α, 17α-dihydroxy-4-pregnen-3, 20-dione is treated with an enzyme from fungi of genus aspergillus or the species rhizopus nigricans.

133024. Veb Werkzeugmaschinenkombinat "7 Oktober" Berlin. Electrical circuit arrangement for a drive by means of 3-phase squirrelcage motors. (April 7, 1971). Comprises a main motor which operates at a predetermined speed and is connected mechanically with an auxiliary motor which operates the drive at a lower speed auxiliary motor relay, delta-relay of main motor and automatic brake contactor the auxiliary motor being adapted to brake oversynchronously in star-connection.

133025. Scovill Manufacturing Company, An improved insert and core mechanism of a pneumatic valve. (September 25, 1970). A valve core mechanism including a corresponding valve member for the valve seat, a lower portion of the valve core mechanism being guided during axial movement relative to an insert by a bridge, the bridge having a bar which extends across the axial bore and has an aperture for slidingly receiving the said lower portion the bridge being separate from the insert and secured in the axial bore.

133026. Scovill Manufacturing Company. An improved pneumatic valve insert. (September 25, 1970). Comprises an axial bore for accomodating a non-replaceable core mechanism, a bridge integrally mounted with an upper portion of the insert, the bridge having a central aperture for slidably receiving the pin of the valve core.

133027. Scovil Manufacturing Company. Improvements in or relating to valves for tubeless tyres. (September 25, 1970). Comprises a tubular insert adapted to a accommodate a valve core, a resilient housing having an axial bore, and a hard radially expandable member integral with the housing.

133028. Bunker Ramo Corporation. Closure for a connector box. Comprising a movable lid; a sealing member coupled to said lid including rigid backing disc and resilient disc facing said box and means fixedly coupling to said lid for self-adjustment of said sealing member.

133029. Nestle's Products Limited. Freeze-drying process and apparatus. The extract is cooled until ice crystals are formed, cooled axtract is subjected to a reduced pressure to expand and freez and the frozen extract is communited.

133030. Void.

133031. Void.

133032. Jaggy & Company. A method of manufacturing grease nipples and grease nipples manufactured by said method. Comprising the steps of forming the shaped body of the grease nipple and the axial bore therein having a reduced aperture at one end in one moulding operation.

133033. Void.

133034. Void.

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133035. Void.

133036. Textile & Allied Industries Research Organisation. Open end spinning. Comprises feeding fibres to the collecting chamber of a rotor the yarn being drawn through a yarn delivery passage, the yarn being led a winding means through a yarn take-off means.

133037. Mohammed Ghouse Shaik Dawood. An automatic device for reducing glare of headlamps of motor vehicles. A photoelectric element to receive light from oncoming vehicular traffic and generate current; a transistorised amplifier connected to the said photo-electric element; a known shutter diaphragm for being mounted between bulb-reflector assembly and the front cover glass of each headlamp, a solenoid provided for the said diaphragm and leaving a spring loaded plunger, said solenoid being energised by the power from a direct current source (which source supplies for to the amplifier also) only when its circuit is closed by an electro-mgnetic relay.

133038. V.K.S.J. Sah. A device for connecting electrical conductors to electrical equipment. Comprises a metallic body having atleast one forked part having a recess in between for a conductor means for constraining the limbs of the forked parts to come together and a metallic member integral with the body and adapted to be connected to a terminal of the equipment.

133039. Void.

133040. Void.

133041. Void.

133042. Colgate-Palmolive Company. Cosmetic compositions containing aminopolyureylene resin for improving the condition of hair or skin. Comprising a water soluble aminopolyurea resin having a molecular weight within the range of about 300 to 100,000 in combination with synthetic organic detergent.

133043. The Goodyear Tire & Rubber Company. Improvements in passenger conveyor landing. Has an endless belt having a load carrying surface, a landing plate structure located on a terminal pulley and an upper load carrying surface with an upper edge portion.

133044. Siemens Aktiengesellschaft. Polarization-modulated radiation and receivers therefor. (April 19, 1971). Comprises first and second radiation detectors provided with first and second polarisation analysers arranged with their respective preferred polarisation directions transverse with respect to on another.

133045. Shirish Shantilal Pandya. A locking means for use in the eccentric mechanism of a power-hammer. A locking plate is provided having an opening for receiving the shaft and at least one fastening opening or hole provided in the eccentric plate adapted to co-oprate with any one of a plurality of opening in the locking nut.

133046. Shrish Shantilal Pandya. An adjusting means for adjusting the gap between upper and lower dies of a power-hammer. Adjusting means comprises a first shaft having threads thereon and adapted to be held to the eccentric mechanism, a second shaft having reverse threads thereon and adapted to be connected to the ram of the hammer and an intermediate member having threaded openings on opposed surfaces to receive said shafts.

133047. Union Carbide Corporation. Process for polymerizing monomer charge with tetrahydrofuran modified catalyst. Polymerization of monomer charge comprising ethylene with tetrahydrofuran modified inorganic oxide supported bis (cyclopentadienyl) chromium [II] catalyst.

133048 Foseco International Limited. Refractory heat insulating materials. (March 31, 1969). [Divided out of No. 125990; ante-dated to May 30, 1970]. Material free or substantially free from binding agent, total fibrous material at least 45% by weight and total organic fibrous material and refractory filler constitute not more than 75% by weight of the material.

133049. Foseco International Limited. Refractory heat-insulating materials. (August 14, 1969). [Divided out of No. 125990; ante-dated to March 30, 1970]. Materials free or substantially free from binding agent, total fibrous material 15% by weight of the material, whole organic fibrous material of specified size is 5% by weight of the material.

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133050. Void.

133051. L'air Liquide, Societe Anonyme Pour L'etude Et L'exploitation Des Procedes Georges Claude. Process for removing sulphur dioxide, nitrogen oxide and sulphuric acid vapor impurities from industrial fumes. Comprising the steps of extracting dust from the fumes to yield dust-free fumes; chemically purifying said dust-free fumes by contacting said fumes with an aqueous solution containing H_2SO_4-free H_2O whereby the sulphur dioxide contained therein is converted to H_2SO_4 and the nitrogen oxides are converted to nitric acid.

133052. Stamicarbon N. V. Device for producing pulsations in a liquid medium contained in a pulsation column. Whereby operation of the pump causes a fluid connection to be effected between the pulsation column and the pump circuit means alternately on the pressure and suction side of said pump, to effect pulsations in the liquid medium in the pulsation column.

133053. The Standard Oil Company. Process for the manufacture of arcylonitrile and methacrylonitrile. Comprises reacting propylene isobutylene vapour at 500-1100°C and 0.5 to 5 atmospheres with molecular-O-containing gas and NH_3 in the presence of a specified catalyst.

133054. Haldor Frederik Axel Topsoe. A furnace for catalytic endothermic reactions and a process therefor. (September 25, 1970). Characterised in that the outlet means include substantially straight connecting pipes at right angles of the reactor tubes, suspension means disposed at the lower end of the reactor tubes and carrying the total weight of the reactor tubes.

133055. Societe Fives Lille-Cail. Improvements in apparatus such as heat exchangers, kilns, and the like. Comprising a ring fixed concentrically to a cylinder constituting the body of the kiln, a sealing tight annular chamber, and scoops integral with the ring, the vapour produced is condensed on the internal surface of the ring and the liquid of condensation returning by gravitational force to the bottom of the chamber.

133056. Dynamit Novel Aktiengesellschaft. Process for the preparation of dimethyl terephthalate. Comprises an oxidising mixtures of p-xylene and methyl p-toluate esterifying the obtained acids with methanol in the presence of catalysis comprising a combination of cobalt compounds and compounds of metal VIA of the periodic table.

133057. Consiliul National Pentru Stiinta Si Tehnologie, Procedure and installation for continuous steel-making. Comprising desulphurising molten cast iron in mixing vessel, atomising the desulphurised metal in atomising vessel, decarbonising in the discarbonisation vessel, decanting metal from the slag and effecting final deoxidation of the decanted molten metal and addition of derived alloying elements in a separate bath, and an apparatus therefor.

133058. Texas-U. S. Chemical Company. A process for preparation of butadiene polymers. Characterised by contacting at least a butadiene monomer in an inert hydrocarbon solvent at temperature from about-10°C to 100°C with a catalyst comprising (a) an ether-free organomagnesium compound and (b) a titanium tetrahalide, and conducting the polymerisation in the presence of hydrogen and recover the polymer product.

133059. M. L. Saria. Haircutter. Characterized in that it includes a pair of detachable parts of identical and similar shape and configuration with comb like teeth at the vertical edges thereof, one of the said parts being provided with a stud adapted to lock the other part through a recess formed therein into a fixed position with a pair of blades between the said two parts at the comb like regions thereof.

133060. Void.

133061. Gebr. Bohler & Co. Aktiengesellschaft. Improvements in or relating to manufacture of semi-finished or finished products of ledeburtic tool steels. Ledeburitic tool steel electrode is melter and building-up a slab ingot by solidifying the resulting melt in a water cooled slab ingot mold, up-setting said slab ingot by a succession of forging steps in the direction of the longitudinal axis of said slab ingot to provide a semi finished products subjecting said semifinished product to a stretching deformation by rolling or forging to an extent of at least two times the cross section of said semifinished product, to form a stretched product having the cross section desired for said rod.

October 1

133062. Void.

133063. Void.

133064. Phillips Petroleum Company. Carbon black appraatus Comprises introducing a hydrocarbon feed at velocity greater than sonic velocity into a mass of hot combustion gases and conducting the mass through a carbon black formation zone at a velocity 3.5-11 feet per second at a temperature 2400-2500°F.

133065. Libbey-Owens-Ford Company. Safety Circuit Control device for automotive vehicles. Including an ingnition circuit connected a source of electrical power and a glazing panel, an automatic safety switch interposed in circuit and characterised by comprising a frangible strip of conducting material on a surface of said panel.

133066. Benilite Corporation of America. Pre-leaching or reduction treatment in the beneficiation of titaniferous iron ores. Raw material is leached with a mineral acid after prior heating at 1500°F to 2000°F for about 10 to 60 minutes with a reducing agent mixture.

133067. Void.

133068. Void.

133069. Void.

133070. Associated Engineering Limited. Fuel injection systems. (September 30, 1970). Includes a fuel pressure regulator arranged to regulate fuel to a pressure which exceeds inlet duct pressure by an amount which increased with increasing inlet duct absolute pressure.

133071. USS Engineers and Consultants, Inc. Method and apparatus for continuously casting hollow rounds. Includes using magnetic devices for maintaining the inside skins on the hollow round in a concentric relation with the outside skin.

133072. Dunlop Holdings Limited, formerly known as The Dunlop Company Limited. A head wire for a pneumatic tyre and method for the manufacture of tyres including such wire. (October 3, 1970). A head wire having a flexible impervious coating of a high molecular weight paraffinic having a setting point of at least 80°C.

133073. Void.

133074. Richter Gedeon Vegyeszeti Gyar R. T. A process for the preparation of unsaturated steroid compounds. A steroid compound having hydroxyl group in the 11 and/or 17 position is dehydrated by treating in an ether or in a solvent having a dielectric constant higher than 6, with the complex compound formed by reacting thionyl chloride with a tertiary organic base.

133075. Void.

133076. Void.

133077. Rachelle Laboratories Italia S.p.A. A process for the preparation of an α-6-deoxytetracycline. Process for the preparation of an α -6-deoxytetracyline from a mixture of the α -and β-epimers of 6-deoxytetracycline sulfosalicylate which comprises neutralizing the α -and β-epimer with at least two equivalents of a base at a temperature of less about 90°C and at pH values of from 5.5 to 9.0.

133078. CTS Chemicals & Technical Supplies Ltd. A process for preparing an insecticidal composition. Process for preparing an insecticidal composition comprising chlorphenamidine and a compound selected among the group comprising cytrolane and cyolane or a mixture thereof.

133079. Hercules incorporated. Process for the production of phenol and acetophenone from heavy ends fraction of cumene hydroperoxide reaction mixture. Characterized by establishing and maintaining the fraction at temperatures 275-420° and super-atmospheric pressure 5-50 psig until substantial pyrolysis of the pyrolyzable portion of the fraction to phenol and hydrocarbon occurs whereby the product is joined as a vapor and removing it from the residue.

133080. Void.

133081. Void.

133082. Void.

133083. Void.

133084. Void.

133085. Void.

133086. Void.

133087. Madhusudan Dattusa Katve. An improved chakali patra. Comprising of plurality of threaded or plain pins, the said pins located just above the level of the disc placed inside, the followed cavity of the chakli patra.

133088. Void.

133089. Void.

133090. The Director, Indian Agricultural Research Institute, New Delhi-12. Improvements in or relating to preparation of 2, 2, 2-trichloro-1, 1-di (4-chlorophenyl) ethanol. Comprises reacting 1, 1 di (4-chlorophenyl) 1, 2, 2, 2-tetrachloroethane in acetic acid with aqueous sulphuric acid.

133091. Void.

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133092. Bulbul Nanalal Shah. Intrinsically safe electronic signalling circuits, signalling units incorporating the same communication system built therewith. Characterised in that the first pre-amplification stage comprises a coupling capacitance at the input end, impedance array, a discretely biased pre-amplifier transistor, an emitter by-pass for the first pre-amplification stage, biasing resistance for the collector.

133093. Niranjan Ray. A process for preservation of eggs. Comprising immersing eggs in a preservative solution prepared by dissolving a soluble sodium silicate in a dilute sodium chloride solution.

133094. Void.

133095. Void.

133096. Void.

133097. Hindustan Lever Limited. Extraction of protein from protein-bearing seed. (October 9, 1970). There is formed from the finely sub-divided seed an aqueous emulsion of protein and lipid the emulsion is separated from suspended water insoluble carbohydrate deriving from seed, and acidified to form a co-precipitate of protein and lipid.

133098. Void.

133099. Void.

133100. Union Carbide Corporation. An automatic process for regulating the optimum current required for producing quality-controlled metallurgical products. Generating a signal indicative of electrode tip position within the furnace, generating a signal representing optimum current for producing a submerged arc product forming reaction zone, generating a signal indicatives of actual current through the electrode, comprising said optimum current indicating signal with said actual current indicating signal to provide a signal indicative of the valve obtained by subtracting the optimum current signal from the actual current signal, comprising said current signal indicative of the difference between the actual current and the optimum current through the electrode with said electrode tip position signal to provide a first signal for use in actuating electrically actuatable regulating means to lower or raise the elctrode.

133101. Imperial Chemical Industries Ltd., Process for the manufacture of cinnoline carboxylic acids. (October 16, 1970). Reacting meso oxalyl chloride phenyl hydrozone with a friedelcrafts catalyst.

133102. Imperial Chemical Industries Limited. Drawing and heat treating process of a tow of filaments. (October 22, 1970). Characterised in that the tow in contact with at least some of the head rolls is treated with water sprays at a temprature in the range of Tg & 10°C drawing being substantially completed at this temperature before the tow leaves the last feed roll.

133103. Aspro-Nicholas Limited. Improvements in the esterification of a nitrobenzoic acid with glycerol. (October 8, 1970). A method of esterifying a nitrobenzoic acid with glycerol comprising heating at a temperature of at least 100°C a mixture of the nitrobenzoic acid and glycerol in the presence of (a) a catalytic quantity of an acid esterification catalyst, which is soluble in the reaction mixture at the reaction temperature, and (b) an entraining liquid having its boiling point above 100°C to separate liberated water by azeotropic distillation.

133104. American Flange & Manufacturing Co. Inc. Method and apparatus for forming a container closure. Securing a closure flange and a tag ring element to a container wall in a single punch press operation.

133105. Void.

133106. Pfizer Inc. Process for preparing a 4-amino-6-arypyrimidine. Characterizes by reacting corresponding 4-halo-6-arylpyrimidine with ammonia or an amine.

133107. Phillips Petroleum Company. Alkylation of isoparaffin with ethylene and a higher olefin. The reaction is conducted with an intimate admixture of the reactants and hydrogen fluoride alkylation catalyst in the presence of a substantial amount of higher olefin.

133108. Chuzhikunnel Varuchese Joseph. An instrument for measuring and/or controlling a liquid level. Comprises an upright float rod mounted on a float and located inside, a housing provided with sealing means, and means responsive to the movement of said float rod and indicator means.

133109. Takeda Chemical Industries, Ltd. A method for the production of dihydropyrimidopyridazine derivatives. Comprising reducing the corresponding pyrimido pyridazine derivative.

133110. Snam Progetti S.p.A. A process for producing glucose by an enzymatic scission of polysaccharides. Contacting a solution of solubliged starch with amyloglucosidase characterized in that the amyloglucosidase is encased in a filament in a manner such that it can cause the production of glucose from solubliged starch and is retained substantially in a filament.

133111. Void.

133112. Sultan Singh Jain. An Automatic flushing system. Two pedals which on stepping up yield causing a quarter-term valve to be rotated by quarter-term.

OCTOBER 6

133113. Sterling Drug Inc. Process for preparation of 1-(substituted-amino)-4-hydroxymethvlthioxanthen-9 ones. Reacting an appropriate-1-(substituted amino) thioxanthene-9-one with excess formaldehyde at an acidic pH.

133114. Sperry Rand Corporation. Improvements in valves for fluids. (May 10, 1971). Comprising a valve member cooperable with a valve seat and a closure spring urging said valve member against said valve seat in the main stage and including a pilot stage and a control stage.

133115. Void.

133116. General Refractories Company. An improved refractory-line structure for holding molten pig iron. Refractory lining comprises medium pitch impregnated, fire-clay brick having an alumina content of 40-45 per cent by weight.

133117. S.T.O. Societa Trasporti Ed Oleodotti S.P.A.A floating platform for vessel mooring. Comprising a stationary framework having an upright axis and adopted to be driven into seabottom and a floating platform to which a vessel is to be moored.

133118. The Lubrizol Corporation. Precess for preparation of N-acylated aminosulphonic acids and derivatives thereof. Comprises reacting at least one carboxylic acid acylating agent having at least. So aliphatic carbon atoms with an amino-substituted sulphonic acid selected from aromatic amino sulphonic acid having at least one sulpho group attached directly to a nuclear corbon atom of an aromatic ring, and mono amino aliphatic sulphonic acids having at least one amino group of the formula

$$\mathrm{H}\overset{|}{\underset{|}{\mathrm{N}}}$$

133119. Edward Howard Green. Reusable temperproof cap for aerosol dispensing containers. Including an annular rim having a portion of its circumference cut away providing tool access structure formed in one skirt for a praying tool, said tool being inserted vertically downwardly into the well between the vertical wall of the well and the cap.

133120. Void.

133121. Void.

133122. Asterion Limited. Process for the preparation of resin compositions based on polyurethanes. (October 9, 1970). Comprises reacting in a single step a polyisocyanate with an aliphatic polyol which at the start of reaction are in liquid phase admixtures with an extender.

133123. H. B. Baetz and R. C. Lightbourne. Improvements in or relating to metal extraction. Reacting material with a hot gaseous mixture of sulphur dioxide and chlorine above the vaporisation temperature of metal chloride produced during reaction, separating the gaseous products of reaction and isolating the metal chloride.

133124. Haldor Frederik Axel Topsoe. Method for catalytic decomposition of ammonia. (October 5, 1970). Characterised in that the decomposition is carried out in at least two steps, each being at the pressure 20-300 atmospheres, temperature in the first step 450-800°C, using a catalyst resistant to nitridification and temperature in the second step 450-600°C.

133125. Void.

133126. Void.

133127. Bunker Ramo Corporation. Controlled insertion force receptacle for flat circuit bearing element. Comprising a frame assembly being a slot therein, at least one contact is mounted in said frame, a slide positioned in said frame and normally biased to a first position, a cam shaft positioned between said slide and frame assembly and means for moving the said slide.

133128. Monsanto Company. Steel fiber casting and elastomer article reinforced with said steel fiber casting. Characterised in that said steel fibre has a cross sectional diameter of less than about 254 microns contains from 0.10 per cent to 1.5 per cent carton and from 0.3 to 3.0 per cent of aluminium, beryllium, thorium, zirconium or yttrium.

OCTOBER 6

133129. Vsesojuzny Nauchno-Issledovatelsky i Proektno-Konstruktorsky Institut Metallurgicheskogo Mashinostroenia Ryazansky prospekt. Continuous-action reel for wire and like flexible rolled products. Comprising at least two power-operated bobbins, mounted on a turnplate, an appliance for taking-in the wire front end fitted with a device for tensioning the wire, into which the wire end is threaded-up by passing along a trough set up on the turnplate between the bobbins end and with at least a single pair of guide rolls and a means for cutting off and fastening the front end of the wire on an empty bobbin.

133130. A. I. Lugovoi, G. A. Kharatian and B.I. Izraelson. A vaccum are furnace. Comprising a melting chamber a first mould with a movable base plate butting against it, a swinging ingot withdrawal gear and a second mould with stationary base plate interchangeable with the first mould.

133131. Pfizer Inc. Process for preparing 2-phenyl-astriazine 3, 5 (2H, 4H) diones and derivatives thereof. (September 7, 1971). Characterized by decarboxylating the corresponding 6-carboxy derivatives at temperature above ambient temperature.

133132. F. Steinmetz. Ball bearing lapping machine. An outer member having an inner complete conical surface of revolution, an inner member having an outer complete conical surface of revolution and mounted co-axially within the outer member, a member having at least one spiral groove in its complete conical surfaces of revolution means for rotating one member.

133133. Vereinigte Osterreichische Eisen-Und Stahlwerke Aktiengesellschaft. Converter with a detachable floor. Converter with a detachable floor and releasable supporting means arranged around the floor circumference or desplaceable wedges characterised in that each supporting means is slewable around a pin at its upper side into or out of the supporting position the slewing axis extending vertically through the centre of gravity of supporting means.

133134. Wilkinson Sword Limited. Method of making a composition containing a source of hypochlorite ions. (October 6, 1970). Wherein the source of hypochlorite ions is mixed with a synthetic magnesium silicate.

133135. Allmanna Svenska Elektriska Aktiebolaget. Switch disconnector. Series sliding contact comprises two cooperating contact bars, one of which is stationary arranged on the outside of the arc chute while the other is arranged to move with the isolator blade in such a way that the series sliding contact is open at least during a critical part of closing operation.

133136. Siemens Aktiengesellschaft. A method of applying a synthetic plastic covering to an electric cable with a polyolefin covering. Providing a method of applying a covering to an electric cable having an outer layer consisting of a polyolefin, in which a layer of cross-linkable or vulcanizable olefinic copolymer of at least two olefins is provided on said layer of polyolefin.

133137. Farbwerke Hoechst Aktiengesellschaft Vormals Meister Lucius and Bruning. Process for preparing water-soluble monoazo dyestuffs. "2-aminonaphthalene-1, 5, 7-trisulfonic acid was diazotized and coupled with 1-(4′-β vinylsulfonylphenyl)-3-phenyl-5-pyrazolone.

133138. Farbwerke Hoechast Aktiengesellschaft vormals Meister Lucius and Bruning. Process for the preparation of novel water-insoluble monoazo dyestuffs. 1-amino-2, 4-dichloro-5-benzoic acid amide was diazotized and coupled with 7-chloro-5(2′-hydroxy-3′-naphthoyl amino)- benzimidazolone.

133139. Farbwerke Hoechst Aktiengesellschaft vormals Meister Lucius and Bruning. Process for manufacture of metal complex mono azodyestuffs. A vinyl substituted amino benzene sulphonic acid is diazotized and coupled with a coupling component and the resulting dyestuff treated with copper, chromium as cobalt yielding agent.

133140. (1) K. N. Maslennikov, (2) J. V. Argunov, (3) N. P. Savonkin, (4) B. M. Smyvin and (5) I. A. Chzhen. The squirrel-cage rotors of induction motors. Comprising a slotted core of split and onepiece stacks alternating along the shaft axis, the slot containing trapezoid bars fixed in place by wedges.

133141. Void.

133142. Void.

133143. Foster Wheeler Limited. A fired heater. The tube carrying process streams are supported by spaced parallel plates defining between themselves a zone for cooling air, the plates being provided with refractory insulation for protection from high temperature from within the heated enclosure.

133144. Foster Wheeler Limited. A tube guide system for a heater and a heater incorporating the same. Comprises a number of clamping bars being pivoted in pairs to one another at their ends to form a zig-zag lattice with the tubes nesting in the troughs defined between crests of zig-zag lattice.

133145. Cassella Farbwerke Mainkur Aktiengesellschaft. Process for the production of water soluble azo dyes. Aniline-O-sulfonic acid is diazotized and coupled with 6-hydroxy-4-methyl-N-methyl-2-pyridone 3-sulfonic acid.

133146. Koninklijke Nederlandsche Hoogovens En Staalfabrieken N. V. Process for comminuting dry material, by crushing grinding or milling and a device therefor. Including a metering feeder, means for grinding the discharged material from the crusher to an air sifter, measuring guide means, an acoustic device and control devices to receive signals.

133147. F. L. Smidth and Co., A/S. Methods of and apparatus for cooling cement clinker. In addition to the air taken in through the clinker outlet of each cooler tube an additional amount of atomospheric air is introduced into each chute.

133148. F. L. Smidth and Co. A/S. Chain, such as a drag chain. Comprises a U-shaped part of one link, the arms of the U embracing a part of the adjacent link with a pin, the pin being rotatable and being axially retained in position by means of endstop discs.

133149. Takeda Chemical Industries Limited. A method for the production of triazolobenzodiazepine derivatives. Characterized by reacting corresponding triazolobenzodiazepine derivative with ammonia or hexamethylene tetramine.

133150. Emperor Engineering Works. Flux collector. A nozzle connected to the narrow mouth of a cone both being coaxially kept together to allow compressed air to pass through into an inverted cup which is mounted on a perforated plate exactly fitted to the diameter of the mouth of the cup, this cup being mounted air tight on the top of a conically bottomed barrel to which a hole is provided at the bottom.

133151. Void.

133152. Void.

133153. Void.

133154. Void.

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133155. Marcona Corporation. A method and apparatus for repulping and removing settled solids. Characterised by directing high velocity liquid stream into solids at a level immediately above said bottom, simultaneously withdrawing reformed slurry through the bottom.

133156. Marcona Corporation. A slurry carrier for transportation [Divided out of No. 125224; anti dated to February 11, 1970]. Comprising a ship having bulkheads and an inner bottom at least one discharge sump formed below said inner bottom and having a bottom wall and sidewalls, a grating covering said sump, means for forming a high energy water jet disposed immordiately above said grating and discharge piping connected through one wall of said sump.

133157. Roche Ramchand Pardasani. Improvement in or relating to fuse controlled device for operating electrical circuit. Includes at least a high rupturing capacity fuse or a fuse having an indicator which is ejected or displaced when the fuse is operated and at least a switch characterised by that the said indicator so ejected or displaced, when the said fuse is operated, operates the said switch due to its movement or displacement.

133158. Purushottan Manohar Wagh. Improvements in or relating to bus/coach plying on road for long or short distance travel. Comprising a door provided between front and rear wheels and leading to a twin stair-case to a high level central platform, said platform joining a central main gangway between the front to the rear side through the middle of the upper deck.

133159. Purushottan Manohar Wagh. Improvements in or relating to railway passenger coaches for commuter traffic and long distance travel. Railway passenger coach comprising lower and upper deck, lower deck of 'well' shaped between inner most wheels, lower and upper deck seats arranged in a staggered relationship, such that head room above lower deck seat is situated below the leg room floor of the upper deck, upper deck seats arranged above the leg room floor of the lower deck.

133160. International Business Machines Corporation. Method of developing a reusable photoconductor element of an electro-photographic copying machine. A method of developing a photo-conductor element of an electro-photographic copying machine, the method comprising applying a resinous toner material to the photoconductor material in the presence of boron nitride.

133161. The University of Kerala. Method for the manufacture of a protein and polysaccharide fraction from black gram. Comprises powdering black gram, defatting, extracting the defatted powder with protein solvent, centri- × fuging and separating the extract precipitating the protein. centrifuging the precipitated protein and drying it and then extracting the residue obtained after centrifuging and × separating the extract with alcohol and base, washing the residue with water and drying it to obtain polysaccharide.

133162. Hydro-Chemical and Mineral Corporation. Liquid-liquid heat exchange and sludge treatment. In a direct contact counterflow plural fluid heat exchanger the combination of means near one end of the heat exchanger or injecting one fluid, as a discontinuous phase into another fluid as a continuous phase, so that the one fluid flows towards the other end of the heat exchanger while the other fluid flows towards the one end, flow constructing means towards its other end.

133163. Joseph Lucas (Industries) Limited. Control circuits for vehicle window lift mechanism. (October 13, 1970). Comprising a manually operable switch operating a reversible electric motor for lifting and lowering the vehicle window and means operable on operation of a limit switch for reversing the motor direction for predetermined time in the event of an obstruction while lifting the window.

133164. Agfa-Gavaert N. V. Apparatus for longitudinally stretching continuous, organic polymeric, thermoplastic film. (October 30, 1970). Comprises a rotatable heated film supporting roller and a rotatable cooled film supporting roller spaced not more than 10 mm apart, an elongate infrared heater. means for advancing the film and means for pulling the film at a greater speed.

133165. Farbwerke Hoeachst Aktiengesellschaft Vormals Meister Lucius & Bruning. Process for the perparation a new disaze dyestuffs. Coupling diazotized aniline with—naphthylamine, diazotizing again the monoazo dyestuff obtained and coupling with the suspension of the condensation product of 1,8-naphthylenediamine with methyl-n-propyl ketone.

133166. Institut Organicheskoge Sinteza Akademii Nauk Lalviiskol SSP. Method for preparation of n-substituted 4-aniline piperidines. Reacting 4-anilinopyr idine with a halide alkyl or aralkyl and subsequently reducting the quarternary salt of n-substituted 4-anilinopyridinium thus formed with sodium barohydride.

133167. Vsesejuzny nauchne-issledovatelsky institut antibiotikew. Partial gas pressure transducer. Characterized in that the cell cavity and the indicator electrode are separated by a rigid partition and the indicator electrode are clamped between the rigid partition and the diaphragm.

133168. Dr. C. Otto & Comp. GmbH. Control means for the introduction of gaseous combustion agent in relation to regeneratively heated coke oven batteries. Characterised by the fact that control valves are incorporated in the gas inlet and air inlet to each heating well and the related regenerators and in the fine for the burned gases from the regenerators.

133169. Void.

133170. The Upjohn Company. Process for the preparation of prostaglandins. [Divided out of No. 127145; ante-dated to June 17, 1970]. Ethyl 3-oxa-7-[end 0-6-(1-heptanyl)-oxobicyclo[3.1.0] hex-2-yl] haptanoate is reacted with potasium chlorate.

133171. Luk Lamellen Und Kupplungsbau GmbH. Clutch Disc. is characterised in that the lining carrier segments, viewed in the peripheral direction of the disc, are joined together in the zone outside the linings.

133172. Etat Francais. Improved process for the manufacture of phosgene. Characterised in that it comprises bringing chlorine into contact with an excess of carbon monoxide in the presence of active charcoal as the catalyst, followed by partial condensation of the phosgene formed and recycline, to the synthesis, of a part of uncondensed gas mixture, resulting from the reaction.

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133173. Westinghouse Brake and Signal Company Limited. "Static relaying circuit. (October 29, 1970). Comprising supply terminals for connection of electrical supply source control terminal for connection of modulating device and input and output terminals between which an insulated signal coupler is provided, circuit means to produce an intermediate signal to determine the state of the insulated signal coupler.

133174. Joseph Lucas (Industries) Limited. Ignition distributors. (October 30, 1970). Comprising a hollow casing, a cam shaft extending within the casing and rotatable therein, and a contact breaker assembly mounted within the casing.

133175. Kali-Chemie Aktiengesellschaft. Method of making 2, 9-dioxatricyclo-(4.3,1.0^{3},7)-decanones. (May 26, 1971). Wherein a 2, 9-dioxatricyclo-(4.3.1.0^{3}.7)-decanol is subjected to oxidation by means of a sulphuric acid solution of chromium trioxide.

133176. Hindustan Lever Limited. Cosmetic total sunscreen compositions. Comprising a mixture of an ultra-violet absorber absorbing in the range 290-320 m/u and an ultraviolet absorber absorbing in the range 320-365 m/u.

133177. Vereinigte Osterreichische Eisen-und Stahlwerke Aktiengesellschaft. Improved lattice tower, particularly antenna-carrying tower. Wherein the corner legs are provided with flanges directed to or disposed on the outside of the tower and forming mounting surfaces for additional elements and wherein the ends of all the web members disposed on the outside of the tower are spaced apart from flanges.

133178. Knud Jenson. Method and apparatus for purifying exhaust gases from internal combustion engines. Method of purifying the exhaust gases from an internal combustion engine, said method comprising the steps of (1) catalytically reducing the nitrogen oxides in a catalytic reactor by carbon monixide in the presence of a catalyst (2) injecting air into said exhaust gas after catalytic redution and (3) noncatalytically oxidising said exhaust gas in a non-catalytic reactor.

133179. Centralny esrodek badawczo-rezwojowy przemyslu betonow "Cebet" Method of production of cellular concrete. Comprising entire quantity of binding agent mixed with minimum 15 per cent aggregate and ground jointly, and sand having minimum specific surface of 1700 sq.cm./g., or 1.2 to 1.5 in case of fly-ash the mixture is used to produce cellular concrete.

133180. Badische Anilin-Sóda-Fabrik Aktiengesellschaft. Process for the manufacture of 2, 6-dichloropyridine derivatives. Reacting the correspondingly substituted pyridine derivative with halogenating agents in the presence of a basic nitrogen compound.

133181. Snam progetti S.p.A. A process for the enzyme scission of lactose of milk end derivatives of same. Comprises contacting milk or its derivative with a filament in which enzyme B-galactosidase is present which causes partial hydrolysis of lactose.

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133182. MacGregor International S.A. An improvement in and relating to hatch cover drive means. Hatch drive means includes a first pinion and a second pinion, one of which in the closed position of the hatch cover engages a rack element on the outside of the hatch cover section, while other pinion coacts with the rack subsequent to a limited degree of movement of said section.

133183. Void.

133184. A. D. Dikshit. Improvement in or relating to closure device with discharge outlet means for containers, collapsible tubes, bottles, and the like. Flat thick top of the threaded closure cap is provided with a cavity the base of which has a hole at the centre, a discharge outlet means having a hole at the bottom and a nozzle on any side wall of said cavity.

133185. A. D. Dikshit. Improvements in or relating to electric heating pads, blankets, and the like. Wherein an electric heating element consisting of a thick resistance wire covered with glass beads or small glass capillaries being stitched on any one of the inner side of the pad in such a way that in case the resistance wire melts it can be repaired easily by just joining the broken ends of the wire.

133186. A. D. Dikshit. Improvement in or relating to multicolour pencil. Comprising a body having means for holding lead or crayon or lipstic or the like pieces along its full or portial length inside the body one end of the body being made conical and having clamping means to hold the lead or crayor or the like and the other end of the body being provided with a detachable button having means for removing the said lead crayon or the like from the holding means and clamping means.

133187. Void.

133188. Void.

133189. Void.

133190. Void.

133191. Eastman Kidak Company. Tobacco smoke filter element. Characterized in that the filter body difines first and second indentations, the indentations being arranged so that upon droping smoke into the filter element a pressure differential is created between the first and second indentations to cause a portion of the smoke to flow at a reduced velocity.

133192. Creusot-Loire. Improvements in or relating to the clothing of rolls and the rolls so obtained. Clothing rolls such that the clothing factor f (i.e. the ratio of the difference between the core outside diameter and clothing inside diameter cold before clothing to the core outside diameter, and chosen in dependence upon the ultimate strength R of the metal forming the clothing after the clothing operation lies between two values F_1 and F_2, $F_1 = \frac{R}{60,000}$ ann $F_2 = \frac{R}{70,000}$ the ultimate strength R being from 80 to 140 kg/mm^2.

133193. Imperial Chemical Industries Limited. Process for the removal of coloured impurities from phenols. (October 26, 1970). Process for the removal of coloured impurities from phenols which comprises contacting the phenol with a non-carbonaceous adsorbent material followed by separation of the purified phenol from the adsorbent material.

133194. Void.

133195. Void.

133196. Combustion Engineering Inc. Vapor generating apparatus. Including an elongated shell defining a substantially closed pressure vessel containing a vapor generating chamber; a plurality of heat exchange tubes disposed in said vapour generating chamber, said tubes being arranged in a bundle the outer periphery of which is concentrically spaced from the wall of said shell,; means for circulating heating fluid, through said tubes; and means for circulating vaporizable fluid through said vapor generating chamber in heat exchange relating with said tubes comprising, a feedwater inter nozzle.

133197. Mark Isaakovich Frenkel. Cylinder of reciprocating piston compressor. Comprising cylindrical suction and discharge valves, a working surface (cylinder face) suction and discharge chambers surrounding said valves.

133198. Pressure cookers & Appliances Private Limited. Improvements in or relating to pressure cookers. Wherein the fulcrumming means comprises a fulcrumming pin mounted on the handle, the said handle bar having an arcuate on channel shaped transverse section for a part of its length at its underside.

133199. Reliance Machine Manufactuers Private Limited. Beam dyeing machine. Characterised in that the closed end of the autoclave is formed with an opening fitted with impeller type pump having one passage each leading to the beam and the autoclave, said pump being driven by a reversible pump.

133200. Void.

133201. T. T. Investments & Trades Private Ltd. Improvements in or relating to drawers. Characterised in that second and third elastic members run divergently downwards from the midportion of the hem of the frontal part of the body to the hem of the thigh opening.

133202. Institut De Recherches De La Siderurgie Francaise. An improved method for the manufacture of pig iron and a blast furnace tuyere thereof. Introducing into a blast furnace an auxiliary liquid fuel as partial replacement of the coke employed in the furnace as reducing agent, and producing combustion of the auxiliary fuel in the tuyeres.

133203. Robert Bosch GMBH. A system for controlling inlet and exhaust valves of internal combustion engines. Comprising a working piston adapted to act at least indirectly on the valve steam of each valve in the opening direction of the valve against the force of a closure spring for intermittently opening the valve.

133204. Morinaga Milk Industry Co., Ltd. Process for preparing a lactulose powder by utilizing protein. A method of preparing lactulose powder containing above 55 per cent of lactulose which comprises drying highly viscous lactulose solution above 60 per cent of lactulose in total solid content with a drying and of protein solution.

133205. Void.

133206. Pignone Sun S.p.A. An adjusting a valve. Comprises a valve body a driving servomotor, means for transferring servomotor action to a sliding shutter wherein · the valve inlet and valve outlet communicate between them through a semi-annular chamber.

133207. Takeda Chemical Industries Ltd. Process for the production of benzodiazepine derivatives. Comprises reacting compound like 5-chloro-2-(3-chloro-methyl-s-triazol-4-yl) benzophenone hydrochloride with $Hx\text{-}NH^2$ x being O-or-oHl C is ethylene or timethylene group and Z is halogen.

133208. Maliakal Paul George. Re-activating switch for lighting fused fluorescent tube light. Comprising a circular bakelite casing a circular bakelite disc that moves, freely, a bolt, an insulating push-button, means for checking circular movement of the disc, a lightly compressed helical spring; the disc being adapted to move down to the lower end of cavity formed on the casing on pressing the push-button.

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133209. Council of Scientific and Industrial Research. A gradual load application device for testing the mechanical strength of glass shells of bulbs of miners' cap lamps. The rotatable bolt is rotated about its vertical axis, a vertical motion is imparted to the nut due to its horizontal motion being prevented by the guide rod mounted rigidly parallel to the rotatable bolt and this vertical motion is transferred through the rigid horizontal arm to the crown of the bulb, causing it to press against the pan of the dial spring balance thereby indicating the magnitude of the load applied to the crown of the bulb.

133210. Council of Scientific and Industrial Research. Sine drive device for achieving linear wave-length scale in plane reflection grating instruments. Characterised in that a micrometer head with a spindle provided with a flat head is placed adjacent to the drive arm whereby the said flat end constitutes the drive plate whereby the advance of the said flat end of the spindle of the micrometer head becomes linearly related to the change in the wave length of light differacted by the grating because of its rotation.

133211. Void.

133212. Void.

133213. Research Institute for Medicine and Chemistry Inc. Fluorination of uracil and related pyrimidines. By reacting uracil with a hypofluorite.

133214. Shell Internationale Research Maatschappij N. V. Ethylene polymerization. Comprises contacting ethylene with a catalytic amount of nickel complex of dehydrocarbyl phosphine-substituted aromatic acid ligand in liquid phase.

133215. Joseph Lucas (Industries) Limited. Pulley (October 22, 1970). Formed from a pair of dished pressing each having a central flange and a frusto conical portion integral with and extending from said flange, the central flanges of the pressing being inter-connected, and one of the pressing being less deeply dished than the other.

133216. Cities Service Research & Development Company. Apparatus for separating liquid and vapour. Comprises a vertical open ended recycle conduct, a liquid draw off pipe and means for separating vapour and liquid mounted intermediate said draw off inlet.

133217. Void.

133218. Void.

133219. Void.

133220. Void.

133221. Void.

133222. N. V. Philips' Gloeilampenfabrieken. Claw mechanism for advancing a perforated record carrier along a path. Characterized in that the armature of the electromagnet extends subsstantially parallel to the feed path and is directly hingedly connected to the claw arm, the arm being provided with a slot extending substantially at right angles to the feed path and receiving the crank pin of the continuously revolving disc.

133223. N. V. Philips' Gloeilampenfabrieken. Cassette. Characterized in that a single guide roller is provided which is arranged so as to be floating, whilst when the record carrier has been wound on the cores the roller contacts the outer circumference of the record carrier rolls wound on the supply core and on the take up core, the flanges of the roller simultaneously guiding the outer turns of both record carrier rolls.

133224. Void.

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133225. Lying Industrier A/S, Leksvikarmatur Annular expanding ring structure. Comprises a number of circumferential arranged segments adapted to undergo radial movements relative to the central axis there through.

133226. Westinghouse Air Brake Company. A fluid pressure brake-equipment. Having a sprung part and an unsprung part comprising in combination a brake pipe, a reservour, braking means, a fluid pressure responsive brake control, a differential abutment means, velue means operable thereby, stop means carrier by the unsprung part and load sensing means on the sprung part by the vehicle.

133227. Dunlop Holdings Limited, formerly The Dunlop Company Limited. Manufacture of reinforced flexible hose. (October 15, 1970). Comprises cooling a hose carcass by the application ax thereto a liquidified gas applying at least one layer of reinforcing material and subsequently curing the assembly so formed.

133228. Imperial Chemical Industries Limited. Process for preparing pigmented solid particles of film-forming polyer. (October 21, 1970). Comprises emulsifying the film forming polymer as a liquid dispersed phase in a volatile liquid continuous a polymeric emulsifier blending the products with a pigment dispersed in a volatile liquid and volatilising the volatile liquid from the blend.

133229. Void.

133230. Void.

133231. Void.

133232. The Air Preheater Company, Inc. Electroslag welding apparatus and method of determining the adequacy of flux present. Comprising a tubular guide of welding material, a wire electrode means; a D.C. power supply connected to the wire electrode, an A.C. voltmeter, means connecting the A.C. voltmeter to the wire electrode.

133233. The Mead Corporation. Improved reduction oxidation and reduction products are prepared by a reduction oxidation process in the presence of a solid electronically conductive material.

133234. International Standard Electric Corporation. Method of and apparatus for forming flat strips of flexible material into tubular members with longitudinal seams. (October 16, 1970). Includes a material block with a circular aperture and a tengential slot gradually decreasing in length from the inlet to outlet end.

133235. Veb Bandstahlkombinat. Shaft packing for agitators with driving gear on top. Characterised in that a casing is provided downstream of the main packing the bottom part of the casing fitting tightly on the shaft so that a throttle gap remains. below the gap the reversing device being mounted on the shaft and the collecting cup reaching below the overflow of the reversing device.

133236. Leningradaky Matallichesky zaved imeni XXII siezda KPSS. Proportional-plus-integral element of an electrohydraulic speed controller for a hydrogenerator. Characterised by a four terminal network having a switching element located between the section connecting capacitor and resistor and the section directly connecting the poles of the network which is actuated with the application of remote control signal to the motor of the electrohydraulic frequency and power controllers.

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133237. Sunit Kumar Mukherjee. Improvements in or relating to the hermetic sealing of containers. [Addition to No. 111817]. Comprises suitable closure fitted inside with a circular piece of resilient material over which there is further provided with a round piece of sheet of plastic material the diameter of which is same as the outside diameter of the circular piece.

133238. Cluett, Peabody & Co., Inc. Method and apparatus for compressively shrinking simultaneously a plurality of layers of fabrics. Comprises the steps of bringing the layers together for continuously point advancement dampening all of the layers, compressively shrinking the layers separating the layers pressing and further shrinking each of the separated layers.

133239. Jervis B. Webb Company. Improvements in conveyor carriers. Comprising bearing means securred to one of the carrier portions and providing an arcuate bearing surface, and braking means secured to the other of the carrier portions and providing at least a pair of arcuate hearing segments.

133240. Void.

133241. Shell Internationale Research Maatschappij N. V. Process for the production of methanol. Reacting carbon monxycide and hydrogen in the presence of a catalyst comprising oxides of copper, of zinc and of didymium.

133242. Dynamit Nobel Aktiengesellschaft. Process for the purification of benzene carboxylic acids and benzene carboxylic acid esters. Dissolving dimethyl terephthalate in a solvent and subjecting the same to a two-stage continuous crystallisation process with controlled seed formation, solvent oversaturation and seed growth.

133243. Void.

133244. Bunker Ramo Corporation. Trimmer potentiometer. Comprising a base, a resistor assembly carried on the base including a substrate first second and third terminal pads carried of said substrate a resistive element and an elongate conductive strip carried on said substrate and a wiper having a plurality of electrically connected spring contacts.

133245. Void.

133246. Bunker Ramo Corporation. Crimping apparatus. Comprising electrical contact supply orienting and positioning means and means for crimping a sleeve portion of the contact to end of a wire.

133247. Richter Gedeon Vegyeszeti Gyer R. T. Process for the preparation of 1, 3-aminoalocohol esters and their salts. A process for the preparation of 1, 3-amino-alcohol benzocates and their salts in which aminoalcohol reacted with a reactive derivative of a carboxylic acid.

133248. Jutaro Yonemochi. Method of smelting high quality ferrosilicon. Immersing part of said lumpy of carbonaceous reducing agent into said slag, immersing and maintaining the ends of electrodes into said slag layer; and passing electric current the rough said slag layer which act as an electric resistance, Joule heat generated thereby providing a necessary and sufficient temperature for reduction of silicoin.

133249. Void.

133250. Void.

133251. Rupendra Amrabhai A Zanjrukiya Electro Striking Clock. Comprising warm spindles, as oscillator arm, a sliding switch which controls electric supply to the coil by means of magnetic arm, the hook connected to the striking arm which holds the wire-rod thereby regulates the reby contact.

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133252. Void.

133253. Apparacchiature E Macchine Utensill S. A. di Milani Giuseppe & C. Method and apparatus for extruding wide profiles of thermoplastic material. Being characterized in that the inner passage of the extrusion head is fed with thermoplastic material at the extrusion temperature ih a plurality of feeding points which are aligned parallely to the extension orifice.

133254. Pfizer Corporation. Process for preparing derivatives of 1-(2-hydroxy-3-phenoxy or phenythio-propyl) piparizine. 1-(2-acetamidophenoxy)-3-piperazinyl-propan-2-ol is reacted with 2-(2-methoxyphenyl) ethyl chloride.

133255. Stamicarbon N. V. Process for preparing nitrogen monoxide. Comprises containing a mixture of NH_3 and molecular oxygen with a catalyst containing Co_3O_4 at temperature lower than 850° wherein the contact of NH_3 3 in the mixture is intermittently reduced by 1 to 10 per cent by volume during 1 to 10 minutes.

133256. Lt. Col. Eknath Vishnu Ketkar. Improvements in or relating to water filter. Comprising outer container closed from top having inlet opening, a dummy cap, plastic guide for ceramic candle supported from bottom receptacle ring, bottom closure with a threaded portion where fitted about with additional nut.

133257. Lt. Col. Eknath Vishnu Ketker. Improvements in or relating to community type waterfilter. Comprising pressures chamber with a bottom chamber supported on a stand provided with plurality of ceramic candles, auxilliary filter unit, flexible foam covered with a fine meshed netting.

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133258. Void.

133259. Void.

133260. Council of Scientific and Industrial Research. Improvements in or relating to lithographic printing plates. Comprises electroplating copper on mild steel, this copperised steel in further built up with copper to a thickness of 0.001 inch to 0.002 inch from a bath consisting of copper sulphate, H_2SO_4 absolute alcohol and glue, and the steel so obtained in deposited with copper-chronium to a uniform thickness of 0.0001 inch to 0.0002 inch.

133261. Council of Scientific and Industrial Research. Device for cold starting of I.C. engines by priming starter fluid. An air reservoir for compressed air which is fitted with a valve for communicating the air pressure to a fluid container which stores the starter fluid and has a mixing head for the air and the starter fluid and a delivery nozzle for supplying fine spray of said fluid to inlet manifold.

133262. Void.

133263. Void.

133264. Void.

133265. Void.

133266. Void.

133267. Void.

133268. Void.

133269. Colgate-Palmolive Company. Detergent compositions. Comprises anaminopolyureylene resin a water soluble or soluble or water insoluble antimicrobial compound and a water soluble synthetic organic detergent.

133270. Girling Limited. Improvements in disc brakes for vehicles. (October 22, 1970). Comprises guiding surfaces spigot menas stating member a caliper member first and second resilient means.

133271. Lonza Inc. Process for preparing teritary amines. Reacting 1.2 to 1.6 moles of a primary amine with two moles of an alkyl chloride in the presence of a soluble iodide catalyst.

133272. Void.

133273. General Electric Company. Process for preparation of rare earth oxythalide phosphors of reduced afterglow. Comprises forming oxalates of lanthanum or gadolinium activated with terbium and ytterbium, converting into mixed oxides of lathanum or gadolinium activated with terbium and ytterbium and blending the same with ammonium chloride or bromide.

133274. Sandoz Ltd. Process for the production of new benzene phosphonic acid compounds. Characterized by reacting 4, 4-diphenyl-bis (dichlorophospine) with n-butanol.

133275. Bunker Ramo Corporation. Cable junction box. Includes spacer members of appropriate size to bear against low profile mated connectors and mounting means in cover whereby said spacer members may be selectively mounted in opposition to said low profile connectors.

133276. The Upjohn Company. 4H-s-triazolo [4, 3a]. [1, -4] benzodia-sepines and process for preparing the same. Comprises a condensing a benzodiazepine-2-thione derivative with a hydrazine.

133277. The Hong Kong Soya Bean Products Co., Ltd. A blue cheese from soyabean milk and method of preparation thereof. Forming a mixture by adding to soyabean milk of 1-10 per cent solid content, 1-10 per cent butter fat and 0.2 to 2.5 per cent skim milk solids pasteurizing and coagulating the mixture heating to 140-170°F, draining water, inoculating the base card with penicillium roqueforti and ripening.

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133278. Council of Scientific and Industrial Research. A process for manufacture of paraffin wax from slack wax. The moltin slack wax is dissolved in petroleum naptha and the parafin wax is precipitated by a ketonic solvent followed by purification of the same treatment with sulfuric acid and activated earth.

133279. Council of Scientific and Industrial Research. An optical forest cruiser. A drum mounted on an axle rotatally mounted on the body and carrying a calibrated graticule, a weight is fixed to the rotatable drum to keep it stationary when the body is tilted a release bottom to fix and release the rotatable drum at any desired position of the body, an eye window to view an object and an image of the graticule formed by a lens system and reflected by a miror; characterised in that the lens system consist of two lenses corrected for coma, spherical aberration and distortion whereby a true image of the graticule is projected at this mirror.

133280. Pfizer Inc. A process for preparing substituted imidazoles. (April 19, 1971). Process for preparing substituted imidazoles characterised by reacting an alpha diketone derivatives with suitable aldehydes.

133281. Jacques Seine Et Mirine. Method and apparatus for manufacturing dry solid molasses. In filament lump or purverulient form raw sugar molasses consisting in coming out the raw sugar tryingn of the molasses while maintaining the viscosity of said dried molasses are transferred and subjected to cooling and thereby solidified, resulting in hard lumps or even a purverulent product.

133282. Joseph Lucas (Industries) Limited. Lamp failure warning systems. (October 24, 1970). Comprising monitoring unit having first and second input terminals, vehicle battery, lamp to be monitored, resistors, amplifier, and output to a warning device which indicates when lamp foils.

133283. Joseph Lucas (Industries) Limited. Electrical Switches. (October 31, 1970). Comprising fixed electrical contacts and a movable contact, a rotor and a detent means in combination with a key operated mechanism including a core rotatable by an operating key.

133284. Ro-Search Incorporated. Footwear and method of and device for its manufacture. (October 28, 1970). Comprising elastomeric material and a lasting string stitched to the bottom margin of the upper and the elastomeric sole material moulded to the margin of the upper, band and said string lasting said margin and said band.

133285. Void.

133286. Rotary Hoes Limited and the Governors of the National College of Agricultural Engineering. Agricultural machine. Comprises a mobile frame carrying a rotor drive means for the rotor, beater members carried on the rotor, means for presenting the crop to the beater members.

133287. Rotary Hoes Limited and The Governors of the National College of Agricultural Engineering. Agricultural machine. Comprises a mobile main frame, a sub-frame on the main frame, a parallel linkage connecting the main and the sub-frame, actuating means for moving the sub-frame up and down and a rotor on the sub-frame.

133288. Rotary Hoes Limited and The Governors of the National College of Agricultural Engineering. Agricultural machine. Comprises and inlet for grain and waste material an outlet for waste material, an endless movable screen, guide means and drive means for said screen, a portion of said screen acting as a conveyor.

133289. Void.

133290. Deering Milliken Research Corporation. Top roll clearer for a textile drafting system. Comprises a U-shaped member having a closed end and two open ends, said two ends having pin having pin members capable of engaging a cavity in a scraper member and cam followed means operatively associated with said U-shaped member.

133291. Magesarao Venkola Manay. An improved machine for marking roads of the liki. Comprising a device for spraying at least one jet of point and means for moving and guiding the said jet of point, the spray gun of the said device being fitted at one end of the said machine and being provided with a main valve, the said main valve being adapted to control the supplies of point and comprises air from their respective sources to such spray gun.

133292. Void.

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133293. Krishna Remchandra Datye. Method of contracting reinforced concrete underground structures such as fourdiations, piles, diaphragm walls and a device therefore. Comprising casting the structure in the form of sections *in situ* and/or using precast sections of the structure of predetermined convenient ungeths, one by one, suspended from a frame lowering the said section into the ground casting the second section *in-situ* using a second precast section in place of the section which has been lowered.

133294. Ripon Berry. An improved beam raising device. Characterized in that it consists of a pulley mounted on a mast of tubular or tallice construction detachably fixed to a base wherein the said mast in provided with an eye for enchoring the traction machine and a gripping device for gripping the wire rope and the beam in the lifted position.

133295. Void.

133296. Void.

133297. Shell Internationale Research Maatschappij N. V. A process for producing metallic silver deposits on the surfaces of porous refractory catalyst supports. Characterized in that the surfaces connected are at first coated with an equeous solution of at least one organic amine and a silver salt of a carboxylic acid, the coating then being dried and the silver salt being reduced to metallic silver by heating.

133298. Ceylon Institute of Scientific and Industrial Research. Improvements in the preparation of cold tea extracts. Comprising additing to the hot tea infusion any use or more of the following components, in concentration of the order of 0.01 per cent—5 percent carbonate, bicarbonate, oxide phosphate, polyphosphate, citrate, borate, and silicate of ammonium or litium or sodium a potassium or magnesium or calcium.

133299. Southwire Company. Method of preparing an aluminium alloy. Comprises charging a furance with relatively pure aluminium and scrap aluminium alloys containing one or more of specified metals and the remainder aluminium, and blending the mixture so that the melt created within the furnace has elemental constituents, other than aluminium which fall within the ranges provided by a specified formula.

133300. E. R. Ellithorpe and R. B. Fletcher. Method and apparatus for the solidification of molten sulphur. [Divided out of No. 126479; ante-dated to May 2, 1970]. Feeding a layer of molten S onto a movable member which is so surfaced as to inhibit form adherence of solidified S, tilting the member at selected points so as to cause molten S to flow transversely from one side to the other side of the surface, and despatching the cooled S from the surface.

133301. Snia Viscosa Societa Nazional Industria Applicazioni Viscosa S. p. A. Method and a mixing apparatus for the preparation of homogeneous, meterable pesteo and suspensions of phtalic acids and glycols, for feeding plants, more particularly continuous esterification plants. Characterized in that the materials i.e. phaste of phathalic acid in clycol are maintained at a temperature between 50°C and 10°C during their homogenization and metered feed to the installation.

133302. Toshiaki Makino. Process for recovering silicic acid and silicates. By digesting plants of the gramineae family with sodium hydroxide, calcium hydroxide.

133303. The Wellcome Foundation Limited, Process for the preparation of 2, 4-diamino-5-benzylpyrimidines.

133304. I M S Limited, Novel medicament injector. Comprising a cylindrical vial, a resilient plug, a plurality of outwardly extending rings on said plug and a cylindrical member.

133305. Syntex Corporation. Process for preparing 2-(6-methoxy-2-naphthyl) propionic acid. Reacting di-6-(methoxy-2-naphthyl) zinc with a lower alkyl 2-halopropionate.

133306. Void.

133307. Void.

133308. Void.

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133309. Council of Scientific and Industrial Research A device for feeding a gas detector tube with gas. Comprising a suction block having a suction space, through which is inserted a suction tube and a delivery block having two on equal diaphragms pasted on the two walls of the delivery block through which is inserted a long glass tube.

133310. Void.

133311. Void.

133312. Kores Holding Zug AG. Adapter for typewriter ribbon spool. Consisting of a hollow cylinder with a flange and having resilient elements which interact with the shaft of the spool holder, the resilient elements being lobe-shaped and are integral with the inner wall of the hollow cylinder.

133313. Dr. Beligere Ramachandra Rao Manjunatha. A method, of treating cellulosic textile materials. Comprising treating the material with a swelling agent subjecting the swollen material to a swelling agent removing treatment and permanently "setting" the imparted stress while the material is in the stretched state.

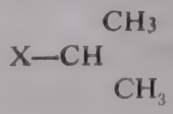
133314. Void.

133315. Void.

133316. Ciba-Geigy A. G. Process for the manufacture of the thermosetting plastic moulded articles having a glossy stain resistant surface. Comprising applying a coating epoxide resin composition to moulded article surface.

133317. Pfizer Inc. Process for preparing 11-(3-dimethylaminopropylidene)-6-11-dihydrodibenz (b, e) exepine. (April 19, 1971). Characterized by employing ethyl acetate, chloroform or methylene chloride as organic solvent.

133318. Kali-Chemie Aktiengesellschaft. Method of producing α -isopropyl- α -[(N-methyl-N-homoveratryl)- α-aminopropyl]-3, 4-ethylenedioxy-acetonitrile and its non-toxic acid addition compounds. (January 4, 1971). Reacting a 3, 4-ethylenedioxy phenylacetonitrile with a compound of the formula.



$$X-CH\begin{matrix}CH_3\\ \\ CH_3\end{matrix}$$

where x is a reactive residue and the resultant compound reacted with a substituted homovertylamine in the presence of a basic condensing agent.

133319. Ahmedabad Textile Industry's Research Association. An instrument for measurement of humidity and drying conditions in hot air drying machines. Comprising an enclosed water container means to control the flow of hot humid air and an outlet and a temperature sensing device.

133320. Scientronic Instruments. Electrical heating units. Comprises a quartz sheath closed at one end, within which is encased electric heating element; wherein the portion of said sheath near the open end is formed into a ground standard or universal joint for leak proof fitting to flask or vessel.

133321. Scientronic Instruments. Apparatus for washing glass pipettes or like tubular apparatus. Comprising a cylindrical glass boiling chamber, a glass dome with a vent pipe and a pipette carrier.

133322. Void.

133323. Void.

133324. Ruti Machinery Works Ltd. formerly Caspar Honegger, Holder for a loom reed. The carrier is rotatably mounted on a shaft which is carried by a reciprocatable sley supports and in that the reed is rotatable away from a predetermined weft beat-up position by rotation of the carrier on the shaft.

133325. Farbwerke Hoechst. Aktiengesellschaft vormals meister Lucius & Bruning. Novel process for the manufacture of benzimidazolone (2). Comprises reacting 4-methyl-O-phenylene diamine with urea.

133326. N. L. Industries Inc., Process for continuously leaching titaniferous materials. Leaching step is conducted by continuously feeding a relatively thin layer of said reduced titaniferous layer onto at least one endless perforated leaching belt and contacting said thin layer of said material with a leach liquor for dissolving and removing through the perforations in said belt the elemental metal from the reduced titaniferous material on said belt, and discharging a remaining TiO_2 concentrate from said belt free from said metal values.

133327. Monsanto Company. Process for the preparation of N-Phosphonomethylglycine. Phosphonomethylation of glycine employing chloromethylphosphonic acid and glycine.

133328. Ivo Mavrovic. Method of controlling urea system. Comprising determining the refractive index of the liquid phase comprising unreacted ammonium carbamate NH_3 and H_2O recycled to the urea reaction. regulating the pressure in the decomposer system as a function of the determined refractive index and finally regulating the ratio of ammonium carbamate to water in the liquid phase as a function of said refractive index.

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133329. Council of Scientific and Industrial Research. A process for the preparation of hydrocarbon vapour detector tube (Petroleum Hydrocarbon). A process for the manufacture of hydrocarbon vapour detector tube which consists of a glass tube sealed at both ends, packed with a reacting medium impregnated with chemicals which when the sealed ends are broken, on reaction with petroleum hydrocarbon changes colour.

133330. Void.

133331. Badische Aniline-&-Soda Fabrik Aktiengesellschaft. Process for the production of disazomethine pigments. A process for the production of a disazomethine pigments wherein a diamine is reacted with a disazomethine.

133332. The Upjohn Company. 1 6-disubstituted-4H-s. triazolo [4, 3-a] [1, 4] benzodiazepines and process for the production thereof. Comprising refluxing a mixture of 7-chloro-5-phenyl 3-H-1, 4, benzodiazepine-2thione, isonicotinic acid hydrazide and butyl alcohol.

133333. International Standard Electric Corporation. Strip splicing (December 8, 1970). Including a first cutting block rigidly mounted on a base member, a second cutting block adjacent the first cutting block but movably mounted on the base member, a strip material alignment groove in each cutting block.

133334. Gaye Cursetjee. Helmet with ventilation device. Comprising the scoop shutter arrangement for fresh air circulation through the scoop or hole all round the head.

133335. Gaye Cursetjee. Locking device for the helmet. Comprising a hole and cable or chain as rod as loops and a lock, by means of which a helmet can be locked to any item.

133336. Tsudakoma Industrial Co. Ltd. An improved device for automatic shuttle exchange on weaving looms having multiple shuttle boxes on both sides thereof. Characterised in that a drive motor is disconnectably related to the fiirst and second operation shafts, such clutch assemblies are mounted on both shafts, a gear combination, a box exchange lever, a shuttle discharge cam.

133337. Void.

133338. Borg-Warner Corporation. Torque transfer mechanism. [Divided out of No. 126316. Ante-dated to April 22, 1970]. Comprising input member drive means casing member, a pair of out put shaph bevel gear system, at least one clutch including frictional surfaces associated with casing and associated with shaft, and means for urging frictional surfaces into initial frictional engagement.

133339. Norton Villiers Limited. Loop driven vehicles. Comprises a frame, a power unit, a fork pivotably mounted on the power unit a driving wheel, a driving loop interconnecting the driving wheel and power unit and three mountings between the power unit and the frame.

133340. UCB, S. A. A process for the preparation of 1, 4-dihydro-1, 4-etheno-isoquinol-in-3(2H)-ones. Comprises reacting maleic anhydride derivative with an isoquinolin-3 (2H-one), converting the resulting 1, 4 dihydro-1, 4-etheno-isoquinoline-3(2H)-one-9, 10-dicarboxylic anhydride by hydrolysis to corresponding acid and subjecting the resulting dicarboxylic acid to oxidative decarboxylation.

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133341. Council of Scientific and Industrial Research. Improvements in or relating to the preparation of zinc zilicate green phosphor. Making a slurry with it, O of a mixture of Zno and SiO_2 or respective componds which yield them on pesting, in the proportion 1:1 Mn Q_3 or $Mn(13)_2$ with a Mn content 1.0-2.5%, heating in the range 1100°C to 1300° in a silica vessel and grinding sieving.

133342. Void.

133343. Void.

133344. Void.

133345. Void.

133346. Mefina S. A. Sewing machine case. Comprises a rectangular box like pedestal having a upper surface and forming a work table with the flat upper face and the free arm a plurality of flaps a cover and liason means for the flaps and cover.

133347. Horizons Research Incorporated. Process for preparing curable fluorophosphazene polymers. Reacting a mixture of at least two different alkali metal fluoroalkoxides and a small percentage of an alkali metal alkylenealkoxide with a soluble polymer of phosphonitrilic chloride in solution.

133348. Joseph Lucas (Industries), Limited. Electrical switches. (October 31, 1970) Comprising casing, plurality of fixed contacts, contact member operating member including operating portion and being pivoted so that the pivot end is remote from the operating end.

133349. Cognate with application No. 129691.

133350. Siemens Aktiengesellschaft. An electrical switch. (May 28, 1971). Arc quenching chamber is having a form tarnsversely to the direction between the conductors which provides a compressive portion followed by an expansive portion for accelerating the movement of the arc.

133351. Matsushita Electric Industrial Co., Ltd. Variable condenser. Characterised frame, bearing portion forming an extension of said cutout, shaft, pushing screw bearing stator blade, a terminal means.

133352. Void.

133353. Farbwerke Hoechst Aktiengesellschaft vormals Meister Lucius & Bruning. Process for the polymerization of—olefins in the presence of mixed catalyst. Polymerization of-olefins in the presence of mixed catalyst (a) A phosphoric acid-N-alkylmide, (b) Cyclopolyalkene, (c) A halogen compound of trivalent titanium, (d) A halogen-free organo-aluminimum compound.

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133354. Interwest General Corporation. A method of manufacturing multilayer planar elements. Comprising first layer of a mixture of solid particles stripe like support member spreading out a second layer settled layer of particles distance material.

133355. USS Engineers and Consultants, Inc. Continuous casting mold. Characterised in that fastening means includes studs fixed to the copper liner, by welding and extending through openings in the ribs, and nuts threadedly engaged with said studs outside the backing plates.

133356. Pfizer Inc. Fermentation process for the production of citric acid. A process for producing citric acid which comprises propagating a citric acid-accumulating yeast strain of a genus selected from the group consisting of Rhodotorula, Sporobolomyces, Nematospora, Zygosaccharomyces and Torula under aerobic conditions in an aqueous carbohydrate-containing medium until a level of at least about 1 gram of citric acid accumulates per liter of said medium, and recovering said citric acid.

133357. Bayer Aktiengesellschaft, formerly known a Farbenfabriken Bayer Aktiengesellschaft. Process for the preparation of novel amidothionophosphonic acid esters. A phenol derivative is reacted with an ethane-thionophosphonamide chloride in the presence of an acid binding agent.

133358. Veb Bandstabikombinat. Device for delivering a pressurized fluid flow, preferably for lubricating and cooling of shaft bushings on pressure tanks. A flow of lubricant and/or coolant is maintained at a constant excessive pressure to a tank consisting of a control valve which is directly controlled and actuated by the tank pressure.

133359. V. V. Benderovsky, A. I. Schepotiev, I. A. Vastebov and O. M. Vergiliev. Improvements in or relating a mechanism for transporting an information carrier. A unit for reversing the direction of rotation of the drive motor in corporated a mechanical counter with at least two stages, input and output stage, a momentary action lever operatively connected to the output stage of the counter, at least one permanent magnet secured on the momentary action lever, an individual magnet controlled contact arranged next to the afore mentioned magnet and adapted to cooperate therewith.

133360. Saint-Gobain. Improvements in or relating to vehicle windscreens. [Addition to No. 119584]. Wherein the part of the periphery of the intermediate layer and internally facing sheet which do extend across the peripheral portion of the externally facing sheet being dimensioned and disposed to give the desired release threashold of the windscreen from its frame.

133361. F. L. Smidth & Co. A/S. A rotary drum and a tube mill incorporating the same. (October 28, 1970). Having at least one end an axial trunnion supported in a sliding contact bearing wherein the surfaces of contact of the trunnion and the bearing are part-spherical.

133362. Minnesota Mining and Manufacturing Company. An assembly station for use in splicing of communications cables and a method of making a modular place array on said assembly station [Divided out of No. 126608 Ante-dated to May 11, 1970]. rate a stabilised cool flame by mixing hydrocarbon and oxygen and by partially oxidising said mixture, the fuel inlet being connected to a supply of hydrocarbon composition to be analzzed said sensing means comprising a traversing temperature device and a read-out device or other visual display designed for other visual display designed for developing a signal responsive to the sensed frame position and correlatable to the fuel composition.

133363. Minnesota Mining and Manufacturing Company. Probe member for verifying electrical connection to be used in splicing of communications cables. [Divided out of No. 126608, ante-dated to May 11, 1970]. Comprising an elongate support carrying at least one long and one short electrically conductive pin probe element in closely adjacent parallel position.

133364. Void.

133365. Siemens Aktiengesellschaft. Improvements in or relating to the deposition of crystalline semiconductor material. (July 26, 1971). Comprising the steps, a gaseous compound of semiconductor material and a known maseous reducing agent at the surface of the heated carrier body of the same semiconductor material, wherein the deposition reaction is effected within a heated tube of silicon or germanium of the semiconductor material sealed off from the ambient atmosphere but connected to a source of said gas mixture, deposition takes place on the inner surface of the tube.

133366. Void

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133367. Council of Scientific and Industrial Research. Improvements in or relating to luminescent materials (Phosphorous) for use in flourescent tube lights. Making a slurried mix of CaHPO4. $2H_2O$, $CaCo_3$, CaF2, $SrCl_2$, $6H_2O$, $Sb2O_3$ and $MnCl_24H_2O$ wherein Sb and Mn are in the range 1-5 and 0-5 per cent respectively, drying and subjecting to a single heating in closed silia vessels to a temperature 900-1250°C, preferably 1100°C.

133368. Anderson Clayton & Co. Protein recovery process from an aqueous solution. (November 5, 1970). Recovery of protein from an aqueous solution of vegetable protein sources having a pH between about 6 and 12 in which process acid is added to the solution to reduce it pH sufficiently to cause the protein to precipitate as a curd.

133369. Nauchno-Isseldovatelsky Institut Metallurgii. A workpiece scarfing device. Comprises a gas-cutting unit, a gas distributing unit, butting against an upper part of the said gas cutting unit, a gas regulating unit.

133370. Void.

133371. UCB. S. A. Process for the preparation of protective and/or decorative resin coatings. Characterized in that an aqueous dispersion of a saturated synthetic resin or a mixture of two or more resin particles is then applied to the substrate and finely hardened thereon by conventional process of polymerisation.

133372. Fabbrica Italiana Magneti Marelli S.p.A. An electronic control device for intermittent operation of a windscreen wiper motor particularly for motor vehicles. An electronic control device for windscreen wiper motor comprising supply source wiper selector switch limit switch, a silicon controlled rectifier timing circuit for immediate starting of motor, precise intermittent operation of wiper system comprising a timing circuit and a protective circuit.

133373. Fabbrica Italiana Magneti Marelli S.p.A. Electronic control device for connecting the direct supply line of a vehicle traction motor with cutoff of the motor controlled supply circuit. Characterised in that a capacitor controlling an electronic timing circuit when supplied by motor and battery voltage operates to firing the timing circuit with a variable delay.

133374. Fabbrica Italiana Magneti Marelli S.p.A. An electronic position transducer for control members. Comprising an oscillator supplying a differential transformer, the secondary of which supplies a signal according to the position of the control member, said oscillator is controlled by a modulactor capable of setting the rated operation thereof by acting on the bias of the semiconductor device supplying the differential transformer.

133375. Void.

133376. Void.

133377. Void.

133378. Farbwerke Hoechst Aktiengesellschaft vormals Meister Lucius & Bruning. Process for the manufacture of new water-soluble, fibre-reactive azo dyestuffs. Process for the manufacture of water-soluble, fibre-reactive azo dyestuffs which comprises reaction an aromatic amino compound with cyanates as carbamidic acid derivatives and reacting the obtained amino compound with a suitance coupling component.

133379. Belokalitvensky Metallurgichesky Zavod. A mould for the production of metal ingots. Comprising a casing with a cavity for and ingot and with double walls forming a conduit for a coolant a base plate closing the ingot cavity in the said mould casing, a shield fastened on the ingot facing wall, an inductor secured in the casing.

133380. Abex Corporation. Disc brakes. Characterised in that the piston body being composed of principally of thermosetting resin containing asbestos fibres.

133381. Standard Telephones and Cables Limited. A method of manufacturing a submarine coaxial cable. (December 17, 1970). Comprising an inner conductor dielectric surrounding metallic tape return conductor edge longitudinal overlapping and an outer plastic sheath.

133382. International Standard Electric Corporation. An electric signal storage device. Comprising an integrating circuit to produce saw tooth signals which signal is applied to an adder circuit where it is added to the read-out signal and to a modulating circuit where it modulates the out put of the adding circuit.

133383. International Standard Electric Corporation Improvements in television system. [Addition to No. 129186] Comprising a storage device and a synchronous demodulator controlled by subcarrier frequency, the said demodulator being arranged to receive time-compressed signal and to produce output signal to be stored in the storage device.

133384. Itt Industries, Inc. Process for the production of highly crimped high tenacity rayon staple fibre. Includes preparing a viscose solution having a salt index of 2.5 to 6 and modified by viscose modifiers, fully deaerating the solution spinning at 35 to 45°C into a coagulating bath containing 4 to 6 per cent H_2SO_4, 1 to 6 per cent $ZnSO_4$ and 10 to 20 per cent Na_2SO, withdrawing there filaments and stretch ing by upto 120 per cent of their original length, relaxing the tension to permit development of crimph, washing and desulfurizing.

133385. N. V. Organon. Process for the quantitative Coupling and separation of low molecular weight compounds and of compounds capable of bonding the first said compounds specifically. Adding to a liquid containing the compound or a compound capable of binding the compound the coupled produce of the low molecular weight compound and an enzyme.

133386. The Upjohn Company. 1-(substituted-hydrocarbyl) diand trihalopyrazoles, and process for their preparation [Divided out of No. 128423; ante-dated to September 14, 1970]. Process for preparing diand trihalopyrazoles 1-alkanoic acid and 1-alkanoic acids which comprises heating to a temperature between 25° to 140°C and thus reacting a di-or trihalpyrazole with an alkyl haloalkanoate or an alkyl-halo alkanoate in a reaction medium of acetone in the presence of an anhydrous alkali metal carbonate until N-substitution is completed, the thus produced compound is hydrolyzed with alkali to give the alkalimetal metal salt which in turn is acidified to give desired di-or trihalopyrazole-1-alkanoil or 1-alkanotacid.

133387. Montecatini Edison S.p.A. Process for the selective polymerization of alpha-olefines. Comprising carrying out the process in the presence of a catalyst consisting of the reaction product between a hydride or a metalorganic compound of the 1st, 2nd or 3rd group and the product obtained by reacting a Ti-compound with a carrier consisting of an anhydrous mg. or Mn-halide or mixtures of said halides with an anhydrous compounds of the 1st, 2nd, 3rd and 4th groups of the periodic system.

133388. Void.

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133389. Void.

133390. Void.

133391. Void.

133392. Void.

133393. Void.

133394. Amchem Products Inc. Plant growth regulating compositions. An aqueous latex stimulating composition containing as an active ingredient from 1 to 20 by weight of one or more phosphoric acid derivatives.

133395. Void.

133396. Void.

133397. Void.

133398. Development Consultants Private Limited. An apparatus for manufacturing pre-stressed concrete poles. Comprising a structure for stressing the high-tension steel wires, a series of moulds having compartments apigned in a row in relation to the said structure, a number of connecting members each located in between the adjacent moulds, a vibrator mounted on a frame work.

133399. Pullman Incorporated. Process and apparatus for reforming hydrocarbon feed. Comprises partially oxiding in an apparatus the hydrocarbon feed mixed with an oxygen containing gas and contacting the product with a reforming catalyst the hydrocarbon feed is mixed with oxygen containing gas in such a way that the latter forms a central core surrounded by the former.

133400. Sachchidanand Goswami. A process of metal coating the cutting edges of razor blades and the like instruments. Comprising cleaning the razor blades, stacking them in a holder, placing the holder in a deposition chamber, depositing the metal in the chamber in sealed condition at a reduced pressure by electrical heating.

133401. Void.

133402. British-American Tobacco Company Limited. Improvements relating to rod-making apparatus. (November 2, 1970). Comprises means for gripping and guiding the extruded rod including a haul-off device, a garniture and a cut off device.

133403. Void.

OCTOBER 29

133404. Council of Scientific and Industrial Research. Improvements in or relating to the spangle finish on tinned steels. Characterised by heating and then etching electro plated tinned steel in a suitable etchant.

133405. Sushil Kumar Saxena. Electromagnetic anti theft device. Consisting of a controlled circuit comprising of 5 relay coils (in case of 4 digit code control) and a set of combination code switches having ten number of keys.

133406. Void.

133407. Void.

133408. Union Carbide Corporation. Selective adsorption gas separation process. Improved process for separation of gas mixtures by selective adsorption by varying the pressures during the various stages of separation of the gas mixtures.

133409. Girling Limited. Hydraulic braking system for vehicles. (November 5, 1970). Comprises anhydraulic cylinder in which work a plurality of pistons axially movable in separator and fluid under pressure is supplied from a pressure source to one or more of said chambers to separate the shoes.

133410. Fratmann S.A. Preparation of 1-alkyl-2-amino-methyl-pyrrolidines. Reacting 1-alkyl-2-pyrrolidine with phosgene adding an alkaline alcoholate thereto and reducing the resultant nitromethylene group to an amino methyl group.

133411. Universal Oil Products Company. Process for converting a hydrocarbon feed into lower-boiling hydrocarbon products. Reacting hydrocarbon feed and hydrogen in the presence of a catalytic composite comprising a metal component selected from the group consisting of nickel and the group VIII noble metals and the reaction product of alumina and a sublined friedelcrafts metal halide.

133412. Pirelli General Cable Works Limited. An electric cable. (November 11, 1970). Comprises a conductor and insulation surrounding that conductor and a layer formed of tapes of electrically semiconducting sheet material comprising two superimposed layers bonded to one another.

133413. Dunlop India Limited. Improvements in the manufacture and construction of wheels. Comprises a circular central disc member of pressed metal sheet pressed to the shape of one half of the profile of the desired rim and annular member of metal pressed to the shape of the other or complementary half of the profile of the desired rim said member being placed in contact with the disc member.

133414. Hindustan Lever Limited. Dentifrice compositions. (October 30, 1970). Comprising a polishing agent which does not field in the dentifrice and amount of orthophosphatenous exceeding 500 ppm of the dentifrice calculated as P and sodium monofluorophosphate in amounts of 1.7 to 2.5 per cent by weight of dentifrice and pH of the dentifrice is at least 5 but less than 7.5.

133415. Void.

133416. Rheinbau GMBH. Concrete reinforcement. Comprising a triangular cross-section lattice like girder portion and a mesh-like reinforcement wherein ends of girder diagonals are engaged between the mesh longitudinal bars with preloading and bottom-flange bars, the diagonals bearing on the mesh transverse bars, the bars extending transversly of the bottom flange bars.

133417. Kharkovsky Aviatsionny Institut. Pulse piston drive. Comprising a pulse chamber with a guide cavity accommodating a piston and a cavity to the filled with an energy carrier periodically communicating with the guide cavity for passing the energy carrier through an opening.

133418. G. V. Pandse. Cop replacing attachment for powerlooms [Addition to No. 105780]. Hopper mechanism comprises a pair of arcuate frame members, each having a slot on the inside thereof to hold cops, a swingable half-round shaped bracket holding the bottommost cop and swingable to release said cop and means to bring back the swingable bracket to its cop supporting position.

133419. The Bunker Ramo Corporation. Improvements in electrical connectors. [Divided out of No. 126455; antedated to April 30, 1970]. Improvements in Indian Patent specification No. 126455, wherein the plastics portion has an integrally formed inwardly directed lip and the two abutments of the sleeve member are constituted by the opposite, inner and outer surfaces of the lip.

133420. Carlo Erba S. P. A. Process for the preparation of isoindoline derivatives. Reacting O-cyano-benzylbromide with p ethyl p-amino-(α-methyl) phenylacetate.

133421. Eszakmagyarorszagi Vegyimuvek. Preparation of N-Isopropylaniline. Reacting aniline and acetone in a hydrogen atmosphere in the presence of a platinum catalyst characterised in that the reaction is carried out in the presence of an alcohol or alcohols and/or ether or ethers.

133422. Mrs. Shanti Jain. Improvement in electric kettle. Includes a perforated pipe fixed up inside the kettle in which a metal float is adapted to more greely up and down according to the rise and fall of liquid, and a cork with two metal needles fitted in the pipe at the boiling level, the outer points of the needles being connected to electric bell.

133423. United States Gypsum Company. Process for extraction of phosphorus Compounds. Comprises introducing apatite containing ores into the first end of a slowly rotating mounted drum introducing into the second end of said drum a 2'3-3 normal aqueous solution of a mineral acid whose calcium salt is water soluble.

133424. Sealed Air Corporation. Protective containers and methods of making the same. Whereby the hermetically sealed edge zones impart a relatively high degree of stiffness to said container and thereby enhance the protective qualities thereof.

133425. Dunlop Holdings Limited formerly known as The Dunlop Company Limited. Method of making a vulcanized rubber composition. (November 12, 1970). A natural and/or synthetic rubber and an adduct of a poly (isocyanate/uredione) compound and a substituted aromatic compound the substituents including a nitroso group and hydroxyl group, the adduct being capable of dissociating under vulcanizing conditions.

133426. Process Evaluation and Development Corporation. Paper pulp digester blowdown method. Being characterized in that the valve blow path has a reduced cross sectional size, the valve being rotatable to position the orifice on the down stream side and to discharge trapped solids by fluid pressure source.

133427. Tacna Corporation. Intrauterine device. Comprising an envelope including an obverse panel and a separate reverse panel, means for uniting said panels within their edges, an elongated tube at one end second to the envelope the tube and the envelope when collapsed having a circular-cylindrical configuration.

133428. Hamel G.m.b.H. Thread braking device for double strand yarn spindles. Characterised by at least two independently operating braking members for applying braking force on the threaded said braking members being arranged at the inlet outlet ends of the said hollow spindle.

133429. Danfoss A/S. Electrically operated actuatore. Comprising a working chamber filed with a expansibie material to be treated and a piston displaceable with the material wherein the heating wire is found on a U shaped carrier.

133430. K. K. Xavier. A reinforced cement concrete shell type cottage. Comprising a shell type body formed by a row of cylindrical R.C.C. shells place horizontally on a support formed of the two side walls of a longitudinal drain, R.C.C. end covers for said body, roofing for the top semi-circular outside face of the shell, props supporting R.C.C. slab floor inside the body, two berths hinged to inside face of shell, props supporting the berths, two airducts formed by two brickwalls longitudinally on the outside on either side of the shell a thin partition in between and normal to the brickwalls, and air-circulating holes in the shell above the floor slab level, but below the top end of the brickwalls.

133431. K. K. Xavier. A fabricated structural steel mould for casting pre-stressed reinforced cement concrete cottages. Mould has an outer and inner shell, both in hubs with longitudinally flanged joint faces, two pedestals on which bearings are fixed a vibrator connected to one of the two hubs, a jack screw by which the concrete shell is ejected and said screw being connected to said hub to which vibrator is connected.

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133432. The Firestone Tire & Rubber Company. Method and apparatus for processing a fluid mixture of elastomers and volatile material to remove atleast a portion of the volatile material from the mixture. Processing a fluid mixture of an elastomer and a volatile material to remove at least a portion of the volatile material from the mixture.

133433. Void.

133434. Imperial Chemical Industries Limited. An aqueous slurry explosive composition and process for preparing such compositions. (November 30, 1970). Comprises at least one oxygen-supplying inorganic salt, water a xanthomonas hydrophilic coloid cross-linked with an oxide of an element in a pentavalent or hexavalent state and a fuel.

133435. Void.

133436. Fernseh GMBH. System for testing video apparatus. Comprises means for inserting test signals into the video signals passing through the apparatus, means for sequentially interrogating the output signals of the equipments means for forming further signals and means for comparing the further signals with stored tolerance values.

133437. Dayco Corporation. Loom picker. Comprises a body a cavity in the said body having a threaded configuration, and a shuttle-contact insert having threaded configuration.

133438. Void.

133439. Energy Sciences Incorporated. Sonic wave generation. Comprising means for generating pressure pulses having a given wavelength a resonant cavity and means for coupling the pressure pulses to the resonant cavity characterised in that the resonant cavity has a rectangular cross section, the side dimensions of the cross section of the resonant cavity and the given wavelength being multiples of a common divisor and the coupling means introduces the pulses into the resonant cavity.

133440. Void.

133441. Veb Polygraph Leipzig Kombinat fur Polygraphische maschinen and Ausrustungen. Tensioning device for printing plates. (May 5, 1971). Comprising a tensioning shaft rotatable in a longitudinal groove of the plate cylinder and a clamping strip inserted into groove of the shaft wherein the tensioning shaft has a flattened edge on the side.

133442. Osoboe Konstruktorskoe Bjuro (OKB) Ministerstva Geologii S S S R. A borehole tool for logging units and particularly for use in conjunction with a X-ray fluorescene analyser. Means of coupping mechanically a transducer probe to an electronic block, which energizes the transducer probe and of transmitting electric signals from the transducer probe to a X-ray fluorescence analyser unit.

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133443. Council of Scientific and Industrial Research. Improvement in or relating to the process for the production of zinc chromate primers. Characterised in that the vehicle used consists of epoxy ester linseed solid.

133444. Council of Scientific and Industrial Research. A process for manufacture of double sulphate of potassium and magnesium (potassium schoenite) from mixed salt obtained from seabittern. Separating Kcl. and $MgSO_4$ by means of flotation using octadecylamine acetate and highly sulphonated castor oil and adding 40% by weight H_2O at 26°C.

133445. Void.

133446. Void.

133447. Atlas Copco Aktiebolag. A raise driving machine. Comprising a main frame, a drum member rotatably mounted in the main frame for rotating about the central longitudinal axis or the machine.

133448. Hindustan Lever Limited. Toothpaste composition. (November 6, 1970). Comprising sodium mono fluoro phosphate and glycerin polyethylene glycol containing liquid phase.

133449. Hindustan Lever Limited. Colourant compositions for keratinous fibres. (November 6, 1970). Comprising a solution of an anionic-cationic detergent complex and a basic dyestuff.

133450. Hindustan Lever Limited. (November 10, 1970) [Addition to No. 130980]. Toothpastes. Toothpaste containing glycerine, water and chloroform and comprising biuret as corrosion inhibitor.

133451. Franz Plasser. Improvements relating to impact-type screw wrenches, particularly for the rail fastening screws of railway tracsks. Comprises a tool socket, a drive motor, a rotatable impact generator arranged between the drive motor and the tool socket and means arranged between the drive motor and impact generator.

133452. Franz Plasser. Improvements in or relating to mobile machine for feeding the individual components of rail fastenings of railway tracks. Comprises supply containers, working places in working compartments, a vibrating conveyer arranged between each working place and associated supply containers.

133453. Franz Plasser. Improvements relating to devices for transporting rectangular articles, particularly railway sleepers. Comprises a lower section or base frame, stanchions projecting upwards on two opposite sides of the frame and counterbalance means arranged near the pivot of each stanchion.

133454. Franz Plasser. Improvements relating to mobile machine for picking up and carrying away used rail fastenings or the like of railway tracks. Characterised in that the collecting containers are open at the top arranged below a conveyor belt and a deflector of substantially triangular shape being provided on the top of the conveyor.

133455. Jury Fedorovich Sazhin, Evgeny Yakovlevich Timoshpolsky and Vladimir Nikolaevich Tsvetkov. Working equipment of a dragline excavator. Comprising a beam with a pulley block suspension whose blocks of the movable casing are mounted on an upright swinging in the longitudinal plane of digging.

133456. Deutsche Gold-Und Silber-Scheideanstalt Vormals Roessler. Process for manufacture of thienylalkanderivative. Reducing for example [1, 1-dithienyl-(3)-propen (1)-yl-(3)]-[1-phenyl-1-hydroxy-propyl-(2)]-amine.

133457. Somendra Nath Gupta. Apparatus for the manufacture of bangles. [Addition to No. 125247]. Wherein for firing the bangles or straightening the same, means for pressing the ends of the bangles, the temperature and the duration of stay of the articles being properly adjusted, a blower being provided in the furnace to draw the air from the cooling zone and to supply said air for combustion to the firing zone.

133458. British Insulated Callender's Cables Limited. An improved section insulator for use in overhead conductors of electric traction systems. (November 4, 1970). Includes a central insulating member which constitutes both a tension insulator and insulated runner, a pair of metal outer runners connected to contact wire, and a transversly extending bridging member rigidily connected to the central insulating member.

133459. Void.

133460. Pfizer Corporation. Process for preparing 1-phenoxy-3-aryl piperazine-2-propanol derivatives. (November 10, 1970). Reacting an N-phenyl piperazine with an epoxide.

133461. USS Engineers and Consultants, Inc. Construction for connecting and aligning sections of a guide-roll rack. Comprises at least three brackets fixed to one sections and having legs protruding therefrom and protruding end portions on at least three shafts of the other section.

133462. Void.

133463. Murphy India Limited. Manufacture of a grill for decorative purposes. Comprising the steps of cutting moulded or laminated plastic into plurality of uniform strips, arranging in coplanar configuration having junctions and securing by means of metal or plastic clips ends being fitted to the frame.

133464. Murphy India Limited. A sound reproducing apparatus. Wherein is provided exactly midway between two consecutively positioned loudspeakers an opening of a predetermined shape stuffed with an accousitically insulating material like cotton wool.

133465. Nand Kishore Gupta. Improved method of riveting components such as wagon axle-box face flates, door cotters or the like by expansion of tubular shank of the rivet inside the component hole. Characterised in that the conical nib expands the shank tightly against the sides of the component rivet hole.

133466. Zellweger Ltd. Heat-sensitive element for measuring the rate of flow of a medium flowing past it. Consisting of a resistor connected across a source wherein the element is kept at a constant temperature by monitoring the voltage drop at said resistor, the additional energy for keeping constant temperature being a measure of the rate of flow of the medium.

133467. Void.

133468. Nestle's Products Limited. Comminuting method and apparatus particularly for frozen vegetable material. Having rotatable shafts each carrying a plurality of cutting discs disposed circumferentially around tap feeding means, a cage exterior to the discs and movable relative thereto and a housing surrounding the discs for collecting the material.

133469. Void.

133470. A. H. Robins Company Incorporated. A method of preparing a co-precipitate of an anti-inflammatory agent and a lignosulfonate. Comprising acidifying an aqueous basic solution of the anti-inflammatory agent and the lignosulfonate with a mineral acid at a temperature from 50°C to about 25°C and isolating the co-precipitate.

133471. Unigate Limited. Improvement in and relating to electrode structures and electrodes therefrom for use in electrolytic cells or batteries. (February 21, 1969). [Divided out of 125382; ante dated to February 20, 1970]. [Comprising a substrate of anodisable metal of group IV (A) as group V(A) of the periodic table, coated with Zinc—containing alloy or salt.

133472. A. E. Staley Manufacturing Company. A method of preparing texturized protein compositions useful as a meat analog ingredient. Comprises providing a plurality of hydrated extrudate pieces characterised as containing water soluble carbohydrate and protein in cellular form, and collapsing the cellular structure of the hydrated extrudate by subjecting it to a sufficient amount of force.

133473. Void.

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133474. Void.

133475. Void.

133476. Orissa Cement Limited Refractory mortar and ramming mass. Characterised by mixing basic refractory aggregates containing 25% Mgo and high lime and low alumina containing hydraulic setting cement and heating at a temperature above 150°C.

133477. Girling Limited. Improvements relating to servo motors or boosters for vehicle brake systems. (November 12, 1970). Comprises a housing divided into two chambers by a diaphragm, a deflector plate and a fulcrum plate, the deflector plate being interposed between the diaphragm and the fulcrum plate and the latter extending radially outwardly to beyond the deflector plate.

133478. Void.

133479. Void.

133480. Industrial Machinery Manufacturers Private Limited. Suspension clip for holding and positioning flutes employed in textile machinery. Which is constituted by a bracket one end of which is adapted to be fitted to a textile machine, and the other end of which has an open slot and a locking means being hinged to said bracket.

133481. Gouri Sankar Bhattacharyya. Improvements in or relating to liquid level controlling apparatus. Includes a fulcrum having two long radial arms and one short radial arm a chain having two weights fixed with it an slung from the end of one of said long radial arms end of other long radial arms being provided with a load said short radial arm being controll, on-off electric switch depending on liquid level of reservoir.

133482. Deere & Company. Process for finishing patterns and core boxes. Comprises forming an electroless nickel plating on at least those portions of the surface of the articles which are subject to wear said plating being uniformly distributed over said surface portions and have a thickness of at least about 0.00025 inches.

133483. Deere & Company. Apparatus for use in electroless nickel plating on articles and particularly patterns and core boxes in molding and core forming equipment. Comprising a large holding tank and a supporting structure surrounding the said tank, which structure comprises inner walls disposed adjacent the side walls of holding tank and outer wall spacedely disposed surrounding the inner walls and wherein the space between the inner and outer side walls provides insulation for holding tank and the holding tank is removably received within the said upporting structure.

133484. E. Y. Timoshpolsky, B. I. Satavsky, N. V. Tsvetkov and Y. A. Stankevich. Face-shovel excavator. Comprises a boom relived from crowed force mounted on the carrier frame and made of beams, said boom carrying crown blocks mounted at the front end thereof, spherical joints through which the boom beams are interlinked with axle of said crown blocks and flexible ties inter connecting said axle with bottom ends of said beams.

133485. E. Y. Timoshpolsky, B. I. Satovsky, J. F. Sazhin, and V. N. Tsvetkov. Crowding rope gear of power shovel. Crowding and return ropes pass through the sheaves mounted in the rear and front parts of the handle, a double arm pivoting lever, connected to one arm of which is the crowding rope, while its other arm is attached to the return rope and to the movable part of a shock absorber.

133486. Ram Narain Kher. Air cooler. Characterised in that the khas is held separately in a frame which is releasably mounted in the said chamber so as to be slightly spaced from the back and side walls.

133487. Ram Narain Kher. Air cooler. Characterised in that flaps are provided beneath the openings so that the water issuing from the opening fall on the flaps and whereby a film of water is produced.

133488. Mrs. Raj Rani. A spectacle frame. Comprising a main frame, a first pair of rims having there between a nose rest and to form an integral part therewith, a pair of arms connected to the frame by a hinge characterised by having a second pair of rims complementary to the first pair and adapted to hold the lenses.

133489. Void.

133490. Ben Wallace Wiseman, Jr. Apparatus for preventing and extinguishing oil well fires. Comprising at least one manifold positions around the exterior well casing having plurality of spaced openings, a conduit extending between a source of carbon dioxide and the manifold, a valve in the conduit and sensing means to actuate the valve.

133491. Societa' Italiana Resine S.p.A. Multi-stage flash evaporator. [Addition to No. 126153]. Characterised in that the casing is in transverse profile, symmetrical about a vertical central axis, the profile deviating from elliptical curvature in a zone extending on the lower side of the casing from a point located approximately below the centre of the ellipse to the central axis, the longitudinal buffles are joined together by means of a top, droplet separating filter being housed in the top of the shell.

133492. Ginter Corporation. Process for generating a dependably renewed store of a high enthalphy flued and a combustion chamber therefor. [Divided out of No. 125617; ante-dated to March 7, 1970]. Comprising charging chamber with air compressed adiabatically to ignite fuel, inject fuel atomized in first portion of said chamber, detecting in second portion the temperature excess above desired, injecting vapourable liquid to restore temperature desired, and exhausting stored fluid together with recharging compressed air.

133493. N. V. Philips Gloeilampenfabrieken. Arrangement for testing the conversion accuracy of a circuit constituted by an analog-to-digital convertor and a digital-to-analog convertor. Comprising a test signal generator coupled to the input of analog to digital convertor and a supervision arrangement connected to the output of digital to analog convertor said test signal generator is adapted to provide a test signal composed of a high frequency signal of constant level and a periodic signal, said supervision arrangement being provided with a filtering device for splitting up distortion products present in the signal received and a comparison device.

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133494. Void.

133495. Void.

133496. Joseph Lucas (Industries) Limited. (November 7, 1970). Electric switches. First body part is comprising of a layer of resiliently deformable insulating material and a layer of relatively rigid insulating material; and in that at least some of the terminals are formed with a pair of flange portions.

133497. Joseph Lucas (Industries) Limited. Electric switches. (November 10, 1970). Includes biasing means adapted to urge cam element in an axial direction to engage abutment and means both for rotating the cam and for moving it axially against its associated biasing means.

133498. Farbwerke Hoechst Aktiengesellschaft vormals Meister Lucius & Burning. Process for preparation of new daylight fluorescent pigments. Comprises incorporating organic fluorescent dyestuff in the condensation resin by either dispersing or dissolving and thereafter curing the mixture.

133499. Metallgesellschaft Aktiengesellschaft. Process for producing sponge iron by a direct reduction using solid reducing agents in a rotary kiln. Characterized in that the charge is partly cooled in the rotary kiln when desired reduction is achieved, at least part of the solid reducing agent having a large proportions of volatile constituent is charged into succeeding zone of the kiln, the reducing agent is devolatilized before the discharge end.

133500. Void

133501. Void.

133502. Void

133503. Void.

133504. Cardwell Westinghouse Company. Cushioning arrangement for rail-road cars. Comprises a cylinder element and a piston element, one of which is adapted to be secured to the car underframe and the other of which is adapted to be operatively connected to the coupler.

133505. Rachelle Laboratories Italia S.p.A. Manufacture of 6-methylenetetracyclines. Comprises halogenation of a tetracycline base or an acid salt thereof followed by dehydration and dehalogenation.

133506. Asturiana De Zinc S. A. Improvements in or relating to process for recovering zinc from ferrites. Characterised in that the residues are leached in at least two stages, the residues being attacked in the first stage with a weak acid concentration whereafter the first stage residues are attacked in a second stage with acid having a concentration of approxy. 300 G/Litre.

133507. Void.

133508. N. V. Philips' Gloeilampenfabrieken. Method of manufacturing a semiconductor device having at least one insulated gate field effect transistor, and semiconductor device manufactured by using the method. Characterised in that in order to form second region, a doping material determining the second conductivity type is introduced in the first region from the semiconductor surface, after with said doping material is partially diffused out from the semiconductor body in a space having an atmosphere of reduced pressure, the source and drain zones of the first conductivity type are provided at least partly in the part of the second region in which as a result of the outdiffusion the doping concentration increases from the semiconductor surface.

133509. Smt. Saroj Lata. Single phasing protector for three phase induction motors. Comprising a 'NAND' or 'AND' logic circuit the input to the circuit being connected to the supply line through transformer and rectifier and the output signal feeding an electromagnetic relay connected in series with the no volt coil of the starter of the motor.

133510. Void.

133511. Energy Conversion Limited. Improvements in and relating to electrochemical cells. (January 7, 1971). Characterised in that the case or structure formed to allow ingress of depolarising gas to the cell at a continual rate such that the cell is limited to be capable of maintaining a lower continual current drain that would be possible if the case of structure was not provided.

133512. The Goodyear Tire & Rubber Company. Polyureaureathane shock absorbing unit method of preparing the same and device incorporating said units. A shock absorbing unit comprising a shock absorbing element comprising a shaped solid resilient polyureaurethane composition.

133513. Joseph Lucas (Industries) Limited. Electromagnetic relays. (November 10, 1970). Comprises first and second body parts electromagnetic actuator, electrical contact means plurality of terminals, two layers of insulating material and flange portion of the terminal.

133514. Svenska Aktiebolaget Bromsregulator. Hydraulically operated cylinder-piston unit. (November 27, 1970). Characterised in that for preventing the nut from making undersired rotations in one direction it is releasably connected to the piston rod through means comprising a one way clutch and a spring-loaded dog clutch which can be disengaged by means of a piston.

133515. S.T.X. Method and apparatus for treating a textile material by the exhaustion process. (May 7, 1971). Comprises a treatment vessel, removal means, means for separating solvent, a recycling circuit.

133516. (Smt.) Kamal Sharma. An improved process for making electrical resistance strain gauge. A base plate with two side strips for clamping the high resistance wire suitably spaced by the spacing shim wherein the length of the gauge is marked on the base plate and at the gauge length mark, low resistance material is either soldered or welded and two leads as shown in first figure are also soldered or welded at the two outside high resistance wire, the low resistance material is cut off to form a loop shown in the next figure.

133517. Ripon Berry. Pneumatically or hydraulically operated traction machine for cable or wire.

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133518. Council of Scientific and Industrial Research. A process for making large size clay products with improved strength. A mixture of glass wool with red oxide of iron or wallastonite are added to the wet clay mix in a proportion of at least 3—7 per cent of each by weight whereby shrinkage cracking and wraping during drying and firing are stopped.

133519. Dr. W. B. Achwal and P. V. Banker. A novel process for dyeing textiles with vat dyes using stabilisers. Comprises adding to the dyebath containing sodium hydrosulphite required amount of magnesium chloride.

133520. Void.

133521. Void.

133522. Void.

133523. Void.

133524. Void.

133525. Void.

133526. Societe technique Pour L,Utilisation De La Precontrainte (S.T.U.P.—Procedes Freyssinet). Elastic bearing device, in particular for structures. Comprises a block of laminated elastomer layers and metal sheets between plates connected to structure and support and characterised in said block includes pin, second plate having hole through which passes pin the hole being placed.

133527. Terrance J Waters. Hyperboloid buildings. Including outer and inner annular supporting frameworks having substantially coaxial vertical axes the major extent of the outer framework being spaced from the major extent of the inner framework.

133528. Jagmohan. Drinking water purifier. Having a cylindrical housing with an inlet and outlet opening said housing containing a plastic sieve near the inlet end followed by a bed of fibre glass, granular activated carbon then another bed of fibre glass and a plastic sieve.

133529. Void.

133530. Kennecott Copper Corporation. Process for extracting metal values from complex ores. Comprising charging deep sea manganese nodules and leach solution of aqueous amonia and a compound selected from an ammonium salt, sodium chloride and mixture thereof to a pressure vessel to provide a solid liquid suspension, heating the same pressure vessel, separating Cu, Ni, Co, or Mo rich leach solution.

133531. Viktor Vladimirovich Vinogradov. 2. Gennady Trofimovich Zubkov. 3. Vladimir Anatolievich Romanov. 4. Viktor Mikhailovich Kabanov. Pneumatic Relay. Includes an elastic sealing element preventing leaks of control gas, said element being secured on the middle part of hollow movable rod, the outer edges at said sealing element being free installed in a circular recess of the body.

133532. TSG International Incorporated. Method of making a box-like unit. (November 17, 1970). Wherein a mixture including water and a hydraulic binding agent is cast between an external mould and an internal core the core being formed from or covered with material which causes its faces which come into contact with the mixture to have a coefficient of heat reflection higher than that of the mould faces, the mixture is allowed to set, the mould is removed, the mixture is allowed to harden further core is removed.

133533. Pactide Corporation. Distillation apparatus. [Divided out of No. 127182; ante-dated to June 20, 1970] Comprising a microporous membrane impermeable to liquid and permeable to vapour thereof one face is of which is formed with a member of parallel ridges and depressions and a pair of liquid and vapour impermeable corrugated films disposed one on each side and in contact with faces of the membrane so that the corrugations from channels between the films and the membranes.

133534. Rayco Corporation. Apparatus for continuously manufacturing flexible conduit. Means for feeding wire, in a continuous member from a supply source, into a device which is adapted to twist the wire on its longitudinal axis into a non-rotating helical coil.

133535. Stanadyne. Inc. Fuel injector. Comprising a tubular body having a bore provided with a valve seat and a discharge tip at one end thereof.

133436. Void.

133537. Void.

November 9

133538. Council of Scientific and Industrial Research. A process for making red lead-red oxide primers. Red lead red oxide and double boiled oil are mixed and ground together till the desried fineness is obtained.

133539. Kadambi Seshadri. An automatic device for taking up the wear on sliding surfaces of machine tools and the like. Automatic device for wear of sliding surface of machine tool comprising tappered jib, a member being slidable with respect to jib said device comprising source of fluid, a valve whose inlet connected with source, a pin in valve actuated by member, outlet of valve connected to inlet of spring piston cylinder system allowing fluid to pass to another chamber having spring loaded piston to move the jib causing said member to cease actuating said pin.

133540. Void.

133541. RCA Corporation. A semiconductor device and method for making the same. Comprising a semiconductor body having a surface, a collector region of a first conductivity type, a base region of a second conductivity type, a plurality of emitter segments of said first conductivity type, a conductive grid comprising a high temperature intermetallic compound.

133542. Unilever Limited. Food Products. (November 16, 1970). Preparing a mixture of an alginate or low methoxy pectate sol and a calcium compound having insufficient free calcium ions to gel the sol, and mixing the mixture with an agent capable of releasing calcium ions from the calcium compound the fruit material being present either in the first mixture or added together with the calcium ion releasing agent and allowing the mixture to gel.

133543. Fratmann S.A. Preparation of N-[(1-ethyl-pyrrolidinyl-2 methyl] 2-methoxy-5-sulphamoyl-1-benzamide. Process for preparing N-[(1-ethyl-pyrrolidinyl-2)-methyl]-2-methoxy-5-sulphamoyl-benzamide comprising reacting 1-ethyl-2-aminomethyl-pyrrolidine and 2-methoxy-5-sulphamoyl-benzoic acid in the presence of phosphorous trichloride.

133544. Fratmanr S. A. Preparation of N-(diethyl amino ethyl)-2-methoxy-4-amino-5-chlorobenzamide. Comprising the steps of esterification and -alkyktion of p-amino salicyclic acid by reaction with dimethyl sulphate.

133545. National Trust Company Limited. Method of making shoes. Electrostatic deposition of plastic material on a mould having an open cavity formed to the required contour of the upper, curing said plastic material and removing the cured upper from the mould.

133546. Sperry Rand Corporation. Improvements in valves for fluids. (September 8, 1971). Comprising a main body, a main spool slidable in the body porting in the body and grooving on the spool to direct fluid flow forwardly and reversly and terminate flow to and from work device, the main spool having a centering spring and an actuating piston coaxial with the main spool.

133547. Skinner Precision Industries, Inc. Electromagnetic valve assembly. Comprising a body, valve chamber, valve seats, actuating rod, valve member passage means, resilient means, armature, solenoid coil, spring and stop means.

133548. S.T.X. Process for dyeing textile fibres of basic character in an anhydrous medium. Dyeing the fibres and fabrics in an anhydrous medium containing a polar solvent a textile.

133549. The Dow Chemical Company. Regeneration of copper oxide and copper chromite catalysts. Oxidizing deactivated catalyst with oxygen containing gas or with peroxide in liquid phase and then reducing oxidized catalyst with hydrozen.

133550. Farbwerke Hoechst Aktiengesellschaft vormals Meister Lucius and Bruning. Process for preparation of new daylight fluorescent pigments. Comprises in corporating organic fluorescent dyestuffs into condensation resins of polyester condensate of carboxylic acid and alcohol which condensate is cross-linked with an unplasticized, alcohol modified urea or aminotriazine formaldehyde resin.

133551. Veb Filmfabrik Wolfen. Colour photographic multi-layer material containing silver halide for the colour development process. (July 28, 1971) Containing one azo-containing red sensitive emulsion layer.

133552. Void.

133553. Void.

133554. Johnson Service Company. A visual indicator of contaminants of the vapour type. Comprises a lineal member having a very small bore and is provided at its imput end with a petroleum colouring input stage followed by a coalescing filtering stage including contaminant adsorption means and means are provided for metering the flow of gas through the lineal passageway at a predetermined rate through colouring means and adsorption means thus vissually indicating contamination by a rate of colour travel along a predetermined calibrated lineal path.

133555. Snam Progetti S.p.A. Process for the production of polymers by the cationic polymerisation of polymerisable monomers. Characterised in that the monomer in the liquid phase at a temperature of +30 to 100°C is contacted in the catalyst comprising an aluminium compound $A1R_2X$ wherein both R are hydrogen alkyl or aryl and X is hydrogen hydrocarbon radical or halogen and (b) a compound capable of yielding positive halide ions.

133556. Aktiebolaget Tudor. Device for liquid filling of vessels. Characterised that the valves are positioned within the liquid receptacle and having open and closed and closed by displacement of lid.

133557. Orissa Industries Limited. Improvements in or relating to refractory bricks. Refractory bricks which has for its main composition a pyrophillite and a bindling agent.

November 10

133558. Void.

133559. Void.

133560. USS Engineers and Consultants, Inc. Tmperature sensing device. Wherein the metal of the inner wall constitutes one part comon to all thermocouple, the other part of each thermocouple is formed by a probe of a metal different from the metal of the inner wall, the end of the probe externally of the outer wall forming a terminal of the thermocouple.

133561. Imperial Chemical Industries Limited. A process and apparatus for the production of a pile surfaced sheet material. (November 20, 1970). Characterised by the steps of interposing a softened filament forming composition between a foundation layer and a heated roll pressing the foundation layer against the softened composition parting the foundation layer with the composition bonded thereto.

133562. Imperial Chemical Industries Limited. Borehole loading nozzle suitable for loading boreholes with slurry explosive. (November 24, 1970). Comprising tubular body with inlet and discharge aperture for slurry and adjustable valve associated with said discharge aperture to vary aperture area.

133563. Void.

133564. Void.

133565. Combustion Engineering, Inc. Apparatus for regulating liquid flow to the evaporator in a shell and tube vapour generator. Comprising a plurality of conduits with their inlet ends disposed at different elevations in a down comer reservoir and their discharge ends in communication with the evaporator chamber.

133566. Texaco Development Corporation. Solvent dewaxing process. Comprises heating waxbearing oil, above the melting point of wax, shock chilling the oil, by adding solvent chilling the resulting oil-solvent to crystallize the wax filtering the crystallized was separating wax from a primary filtrate comprising primary dewaxed oil and solvent and separating said solvent from said dewaxed oil.

133567. Srinivasan Mani. Improvements in hydraulic pumps or motors. Comprising a plurality of pumps or a plurality of motor each including an individual drive shaft and a rotary cylinder block rotatable about an axis inclined or inclinable to its drive shaft axis.

133568. Srinivasan Mani. Improvements relating to gear pumps. Comprising a housing having two parallel and overlapping bores, two rotors having intermeshing gear toothed portions arranged to turn in the respective bores.

133569. Void.

133570. L. Givaudan and Cie Societe Anonyme. Process for the manufacture of novel carbocyclic odorants. 20g of lithium acetelide ethylenediamine complex in 100 ml. toluene was reacted with 30g 2-sec-butyl cycloheptanone.

133571. Void.

133572. Arumbuliyur Cumandur Krishnaswami and Chiranjilalji Hariprasad. Improved process for the fermentation of tea. (November 17, 1970). By feeding moist tea leaves through a drum, and passing a stream of air at an appropriate temperature and humidity over and through the tea leaves while in the drum.

133573. Void.

November 11

133574. Void.

133575. Void.

133576. Philip Morris Incorporated. Elade dispenser. Having right and left dispenser ends, a cover and an elongated blade retainer plate having a right and left blade guide lug an intermediate blade relating lug located between said blade guide lugs.

1335577. Tolwood Multifasteners Limited. Improvements in or relating to pierce nuts. Comprising a nut body having a flat panel-engaging end surface, a tapped bore extending through the nut body along an axis normal to said flat end surface.

133578. International Computers Limited. Improvements in or relating to card gauge. (March 26, 1971). Including a member having a flat surface locating projections engageable with adjacent edges of the card to be checked and a plurality of indicia positioned on the surface corresponding to those positions on the card in which holes are to be punched, the indicia at each position including first, second and third rectangular boundaries.

133579. Joseph Lucas (Industries) Limited. Conversion kit for use with vehicle ignition systems. (November 17, 1970). Including an ignition coil having a primary winding and a secondary winding a distributor through which the secondary winding of the ignition coil is connected to the spark plugs of the engine in turn.

133580. The Textile and Allied Industries Research Organisation. Laboratory sizing machine. Comprises in combination a creel, receiving ring bobbins, yarn tensioning device means for dividing the yarns in pre-selected groups a sizing apparatus including a receptacle, a drying cylinder, guiding means and a frictionally driven weaver's beam.

133581. The Textile & Allied Industries Research Organisation. Builder motion mechanism for doubling machine. Comprises a main lever a bracket carrying a chain wheel or shaft a ratchet wheel adapted to be actuated by a device responsive to the up and down movement of said main lever.

133582. Void.

133583. Venugopal Vijayakumar. Improvements in or relating to structures. Characterised by bonding together tapering. perforated bricks so as to form a plurality of arches built up from a base of support, the arches being disposed in close contact with. and bonded to, each other in either, or both. of the following two formations, that is to say, firstly with the arches juxtaposed so as to give rise to a multiple arch formation in the same line and, secondly, with the arches disposed in staggered relationship, the arrangement being such that the space below the arches is capable of being utilised for providing a plurality of rooms inter-communicating with each other

133584. Venugopal Vijayakumar. Improvements in or relating to structural members. Characterised by the steps of extruding clay through a die to obtain a perforated clay column, cutting the clay column at intervals obliquely across its length to obtain blocks and finishing the blocks.

133585. Void.

133586. Void.

133587. Estrela Batteries Ltd. Improvements in or relating to a leakproof primary electric dry cell. Wherein the basal end of zinc can has push-fitted thereto a metal bottom cup partially emboded with the basal surface thereof exposed to serve as an electrical contact, in a plastic disc provided with a plurality of holes which obtain continuity between respective portions of the plastic disc located inside and without metal bottom cup, plastic disc being sealiingly joined along its periphery to the lower end of plastic jacket-cum-top cover projecting below basal end of the zinc can so that basal end of the cell is rendered.

133588. Chandi Charan Mukherjee. Improvements in or relating to closed container assemblies and sealing means therefor. Comprising a closure cap and a container connected to each other, intermediate sealing members introduced between the closure cap and the container, the arrangement being such as to enclose the sealing members completely within the container.

133589. Esso Eastern Inc. A process for packing hot wax or asphalt and a pack of wax or asphalt so obtained. (i) Forming a sheet material by coating one side of the fabric with thin layer of asphalt and then lining with a sheet of paper coating the exposed surface of the paper with silicone or a plastic material (ii) forming a bag from the sheet material (iii) inserting the bag in a metal container to receive water (iv) filling hot wax and/or asphalt into the bag (v) sealing the opening of the bag (vi) lowering the container with the bag into a water tank (vii) keeping the bag in the tank till it cools to room temperature.

133590. Gulab Madhavdas Gangaram. Closure cap for aerated water bottle. Comprising a pair of round concentric walls surmounted by a circular top with a central depression adapted to fit into the mouth of the botle, the inner wall of the cap having a uniform lubge pressing against the neck of the bottle.

133591. Gulab Madhavdas Gangaram. Electrostatic flocking of objects. Apparatus comprises a rectangular cabinet with electrically insulated walls, the front wall having a window, a horizontal earth-connected flock-filled tray capable of being raised and lowered an aluminium sieve, an earth-connected rectangular aluminium sheet stoping from back wall; the object being held rotatably supported.

133592. Fertilizer Corporation of India Ltd. An instrument for rapid non-destructive estimation of ferrite content in austentic stainless steels. Comprising a transducer, means to energise the said transducer, a reference voltage source, a comparator means, an attenulator means and a phase shifting means connected between said transducer and the comparator, an amplifier followed by a detector connected to the output of the comparator means and a display device.

133593. Magma Energy, Inc. Method and apparatus for treatment of hot water from geothermal sources. Comprising access to the well to a source of geothermal hot water transferring said hot water to rainkine heat engine using that heat for generating electric power.

133594. Wilkinson Sword Limited. Pressurized dispensers. (November 12, 1970). Comprising a container provided with a valve-controlled outlet and containing a concentrate, and a reservoir holding propellant, the reservoir comprising an organic compound in solution with at least 15 per cent of its own weight of propellant at room temperature and over which the vapour pressure of the dissolved propellant is less than that of the pure propellant.

133595. Monsanto Limited. Filtering elements for cigarette filters. (November 18, 1970). Comprises an extruded element of foamed thermoplastic resin having a definite cross-section and a micro-structure.

133596. STX. Process for treating textile fibres and fabrics. [Addition to No. 133548]. Dyeing the fibres and fabrics in a medium containing a mixture of solvents.

133597. Secretary of State for Social Services in Her Britannic Majesty's Government of the United Kingdom of Great Britain and Northern Ireland. Improvements relating to the production of L-asparaginase. (November 13, 1970). Comprising growing bacteria of the genus erwinia in continuous culture in a limited steady state concentration of upto 0.1 mg/ml of a chosen carbon source which is a krebs cycle intermediate or precursor thereof under the process condition.

133598. United Aircraft Corporation. Fuel cell system having a natural circulation boiler. Characterized by an upper drum, a lower drum, a downcomer and riser means providing a fluid connection between said lower drum and said upper drum.

133599. Spolana, narodni podnik Neratovice. Method of and apparatus for continuously preparing perchloromethyl mercaptan. Interacting an organic phase perchloromethyl mercaptan unreacted carbon disulphide, carbon tetrachloride and traces of thiophosgene with an acidic phases having hydrochloric and sulphuric acid.

133600. Void.

133601. Yorkshire Switchgear and Engineering Co., Limited. Improvements in electric circuit breakers. (November 13, 1970). Wherein one or more of the arcing paths between at least one pair of fixed and movable arcing contacts, being surrounded by at least one loop of ferromagnetic material.

133602. Badische Anilin—& Soda—Fabrik Aktiengesellschaft. Herbicidal composition. [Divided out of No. 126054; ante-dated to April 3, 1970]. Composition comprises the admixture of 3-isopropyl-2, 1, 3-benzothiadiazinone-(4) 2, 2-dioxide and N-(1-chloromethyl propyl)-carbamic acid-(m-carbomethoxy amino-oxylo-ester.

133603. Schubert & Salzer Maschinenfabrick Aktiengesellschaft. An apparatus for piecing-up yarn in an open-end spinning device. Comprises a control fibre supply means, a spool device with a tilting spool holder, a yarn monitoring device, an operating part, and a switch.

133604. Development Consultants Private Limited. Improvements in or relating to mobile hoists. [Post dated to December 31, 1971]. Comprises a structural framework with sheels adapted to travel in a longitudinal direction, a pair of monorails each of which is provided with lifting hoist adapted to travel in transverse direction and means for cross travel of said structural framework.

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133605. Void.

133606. Void.

133607. Vidyutkumar Madhoo Bapat. Manuafcture of self tuning inductor. Comprising of winding two insulated wires around a coil former such that the wires are touching each other physically to form a capacitance and connecting the finishing end of one winding to the starting end of the second winding to form a continuous winding and to form a large self capacitance across the remaining two terminals.

133608. Void.

133609. Allumanna Svenska Electriska Aktiebolaget. Disconnectible electric contact device. Two cores of ferromagnetic material are movably attached to one each of contact elements with the help of springs in such a way that the cores are attracted under counter-action of the springs when the current flows whereupon at least one locking latch is inserted into a notch in the stationary bar.

133610. The Singer Company (U.K.) Limited. A looper or hook shaft assembly for atufting machines. February 18, 1971. Comprises a looper or hook shaft, a looper or hook bar and mounting brackets supporting said bar characterised by an adjustment means between the brackets and shaft adapted to effect an angular adjustment of the brackets.

133611. Void.

133612. Esso Research And Engineering Company. Lithium soap grease. Comprising lubricating oil and a thickener system.

133613. Colgate-Palmolive Company. Oral preparation suitable for clearing teeth. Comprising 0.01 to 5 per cent by weight of an organic polymeric polyphosphonate and 10 to 98 per cent by weight of compatible polishing agent.

133614. Harold Malcolm Gordon-Williams. Manufacture of security papers (November 16, 1970). In which non-cellulosic material is incorporated in the body of the paper, characterized by the material being a thermoplastic material and by raising the temperature of the thermoplastic material to a level at which the material fuses.

133615. Jervis B. Webb Company. Railway System. The driving mechanism is mounted on a frame which is connected to the vehicle, on a pivotal axis extending transversely to the rail.

133616. Void.

133617. Polymer Processing Research Institut Ltd. Asahi Kasei Kogyo Kabushiki Kaisha. Process for producing crimped fibres continuous wet heat sétting and apparatus therefor. Comprises the steps of wrapping the crimped fibre cake introducing the wrapped crimped fibre cake into a pressure-sealed straight elongated pressure zone guiding the wrapped cake in a substantially straight line withdrawing the wrapped fibre and peeling off the belt from the crimped fibres and returning the belt to the inlet side for reuse.

133618. Void.

133619. Alimahomed Chhaganbhai Padamsee. Improvements in or relating to double walled containers, such as insulated flasks. Characterised in that the inner container member is formed integrally with the shoulder member with its mouth at the neck of the shoulder member said member having adapted to the secured to the other casing member by screwing.

133620. Alimahomed Chhaganbhai Padamsee. Improvement in or relating to vaccum flasks or like containers. A canister having a shoulder member and at least two inwardly projecting constrictions or depressions the said depression having sloped downwardly and shaped to correspond to the rounded bottom portion of the flask and including a cap detachably screwed to the shoulder member.

133621. The wellcome Foundation Limited. Preparation of purine sugar derivatives. (November 16, 1970). Comprises reducing 2-acetamido-6-methylthio-9-(2, 3, 5-tri-0-benzyl β-D-arabinofuranosyl) purine.

133622. Cabot Corporation. Process for vulcanization of rubber composition. Comprises mixing 250—100 parts of rubber with 10—250 parts of carbon black with total surface area of 160 m^2/g a ratio of non-porus specific surface area to total of 0.9 and vulcanising.

133623. Raytheon Company. A solid state junction device. (September 20, 1971). Comprising a first layer of semi-conductor material and a second layer having a resistance in a direction parallel to the junction which is substantially greater than the resistance through the layer in a direction normal to the junction, means for producing a reverse voltage bias across the junction and means for injucting charge carriers into the region of the junction.

133624. Kanegafuchi Kagaku Kogyo Kabushiki Kaisa. Method of treating microbial cells. Driving OH by evaporation the volatile matter from cells recovered from the fermentation liquor at the falling rate period of drying after the constant rate period of drying and further treating the cells at 90°—120°C for at least 30 mins.

133625. Haldor Frederik Axel Topeso. Process for the manufacture of Ethyl Alcohol. (November 26, 1970). Comprises absorbing ethylene from an ethylene-containing gas by 80—98% H_2SO_4 such that H_2SO_4 and gas as passed at a rate so as to prevent the absorption degree from exceeding 0.5 mole ethylene per mole H_2SO_4 hydrolyzing the absorbate by steam, separating ethyl alcohol by stripping subjecting the absorbing medium to adiabatic flash evaporation under reduced pressure to restore original concentration cooling and recycling it to the aborption step.

133626. A. H. Robins Company, Incorporated. Process for the production of 1, 3-dihydro-5-aryl-1, 4-benzodiazepin-2-ones. Reacting 1, 3-dihydro-5-aryl-1, 4-benzodiazepin-2 one with alkali metal hydride and 2-(p-R^2-phenyl)-2-(3-halugenopropyl)-1, 3-dioxolane wherein R^2 is hydrogen or halogen and subjecting the product to midly acidic conditions.

133627. Void.

133628. Mitsui Toatsu Chemicals. Incorporated, Process for the manufacture of slow-acting nitrogen fertilizer. Reacting urea, formaldehyde and acetaldehyde.

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133629. Council of Scientific and Industrial Research. An optical Deflection magnifier for increasing the sensitivity of electrical measuring system. Comprising a deflecting mirror actuated by a sensing element, a tiltable mirror is placed on a support opposite to the deflecting mirror.

133630. Council of Scientific and Industrial Research. A Strain Gauge Immersion Transducer. Characterised in that the strain gauge is cemented to a diaphragm which divides a chamber into a fluid chamber and a leak-tight gauge chamber, two openings are externally connected to the fluid chamber and the said strain gauge is connected to a measuring system.

133631. Council of Scientific and Industrial Research. A new method of grouting roof bolt. Characterised in that the sleeve is filled up with cementing material inserted into drnll holes, reinforcing bar rammed into sleeve, cementing material comes out of sleeve thereby grouting the bar.

133632. Void.

133633. Celanese Corporation, Reinforced polyalkylene tereththalate molding resin having reduced burning properties in thin sections. Characterized by containing at least about 0.75 based on the weight of total composition of a supplemental reinforcing agent having length to diameter ratio of greater than about 50:1 in the molded article.

133634. Indian Institute of Technology. A mill operating on fluid energy. Mill operating on fluid energy comprising a grinding chamber, plurality of nozzles, source of compressed air, means for supplying and regulating compressed air, feed injector arrangement being such that reduction in size takes place by collision of particles, an uptake pipe, for enabling particles, to move upwards, classification chamber, a cyclone separator for receiving particles of smaller size and a downtake pipe to carry coarser particles for repeating the cycles.

133635. L. Dessart. Improvements relating to water softener. Wherein a multiway valve actuated by first electrically operated valve takes up position to soften the hard water, multiway valve being actuated by second electrically operated valve to effect regeneration of resin and steps of loosening the resin being affected while water supply to apparatus is by passed.

133636. Void.

133637. Void.

133638. Research Institute for Medicine and Chemistry Inc. Process for the 11, 12 enolisation of a 9 α halo-11-keto steriod. Treating 9 α halo-11-keto-steroid in a polar aprotic medium with a strong base.

133639. Industrie Pirelli Societa per Azioni. Improvements relating to electric cables. Comprising an insulated core enclosed in a metal sheath and a protective layer surrounding the metal sheath, the protective layer including a corrugated metal ribbon extending longitudinally of the cable and wrapped around the metal sheath.

133640. Cabot Corporation. A process for producing a nickel-base alloy. A process for producing a nickel base alloy which comprises melting together elements consisting essentially in weight per cent of about : Chromium 15—29% Iron 12—35%, Nickel and Cobalt 38—72%, Silicon 0.2—2.5% and Lanthanum in effective amount $< 0.2\%$.

133641. Portland Cement Association. A process for forming a modified portland cement. Process of forming a portland cement composition which comprises subjecting portland cement clinker raw mix including alumina to burning in the absence of added steam but in the presence of calcium halide, the amounts of alumina in the raw mix and the calcium halide being suffiicent to form in the resulting composition from about one to thirty per cent by weight of a suitable ternary compound and the improvement being intergrinding calcium sulfate anhydrite and calcium or magnesium carbonate with the clinker resulting from the burning step.

133642. Juan Pablo Schoofs. Improved exudation bandage. Comprises a waterproof, non-transpirable and slightly elastic band, rounded on its borders having one of its faces striated or latticed, a strip of lesser width integral with its one end and one surface of the bandage is provided with adhering means to the opposite surface.

133643. Ludwig Taprogge trading as Ludwig Taprogge Reinigungsanlagon Fur Rohrenwarmeavstauscher. A filter device for separating solids from fluids flowing in pipes. (June 14, 1971). Comprises a separator housing with a build-in filter cage, at least one outlet, the housing having a side inlet port and at least one butterfly valve.

133644. Badische Anilin-& Soda-Fabrik Aktiengesellschaft. Process for retaining and fatliquoring leather. A process for retanning and fatliquoring leather which has been tanned with chrome or vegetable tanning materials by treating said material with retanning materials, fatliquoring materials and optionally wetting agents and dyes wherein the said retanning materials, fatliquoring agents and optionally wetting agents and dyes are contacted with the leather exclusively on its grain side only.

133645. Snam progetti S.p.A. Apparatus suitable for with Standing high internal pressure and method of manufacturing the same. Comprises an internal shell or a plurality of superimposed internal shells formed of a metallic material, and, over the internal shell(s) at least one external shell or a plurality of superimposed external shells formed of the same or a different metallic material as that of the internal shell.

November 17

133646. Void.

133647. Void.

133648. Void.

133649. The University of Roorkee. Thyristor, rectifier and diode tester. Characterised by that the lamp which glows to prove perfect test conditions is connected in series with the collector of its driving transistor, where a biasing circuit has a resistance selector bandswitch at its collector in series with it, in order to select its collector corrent, the said pulse circuit having a zener diode to give a steady base-bias put through a capacitor and a resistance, an ordinary diode being placed with its cathode connected to the base and anode to the emitter of the biasing transistor and this pulse circuit is connected with the best selector switch.

133650. Colgate-Palmolive Company. Clear Dentifrices. (November 27, 1970). Comprising 1, 6-di-CP-chloropheny! biguanidohexane water insoluble polishing agent a gel vehicle gelling agent $[Si_8Mg_{5\cdot1}\ Li_{0\cdot6}\ H_{7\cdot6}O_{24}]^{0.6}+Na_{0\cdot6}$

133651. Colgate-Palmolive Company. Method of preparing dentifrice compositions. (November 27, 1970). Comprises reacting 1, 6-di-(p-chlorophenyl biguanido) hexane or its soluble saalts with a salt or weak acid containing an anion in the presence of a dentifrice vehicle.

133652. Joseph Lucas (Industries) Limited. Ignition coils. (November 28, 1970). Comprising secondary winding on core and co-axial primary winding or separated by a layer of corrugated insulating material characterised at least one layer of primary wound or secondary between secondary and corrugated layer.

133653. Void.

133654. Electrolytic Zinc Company of Australasia Limited. and Commonwealth Scientific and Industrial Research Organisation. The recovery of lead and silver from solution as sulphides. (February 12, 1971.) Comprising the step of treating the solutions selected from the group consisting of ammoniacal ammonium sulphate solution sodium chloride solution, calcium chloride soultion organic amine solution with a stoichiometric excess of a reagent selected form one or more of the groups of sulfur compounds.

133655. Voith Getriebe KG. Hydrodynamic vehicle gear box, particularly for rail locomotives. Two of the traction working circuit are co-axial having a common first primary shaft and a common first secondary shaft while the other tranction working circuit and the working circuit of the hydrodynamic brake are co-axial with a common second secondary shaft.

133656. Mark Isaakovich Frenkel. Uniflow valve for compressors. Comprising a pack of flexible metal plates alternating with prismatic seals said plates having fluid inlet and outlet channels, at least part of the plates having teeth like formation on the top peripheral side.

133657. L. Givaudan & Cie Societe Amonyme. Process for the preparation of synethetic metal aroma. Heating a mixture containing proline, cysteine, methiomine, a pentose and a polyalcohol.

133658. The Hong Kong Soya Bean Products Co. Ltd. Process for the preparation of a meltable heat stable curd from soya bean milk. Preparing soya bean milk of 1-10% solid content adding an edible fat of at least 1% by weight, pasteurizing, homogenizing adding a coagulant, heating to 60°—76°C, draining the resulting curd.

133659. Ciba of India Limited. Process for the manufacture of azo compounds. Characterized by coupling the diazotired 2-chloro-4-nitro aniling with N-(B-acetaxyethyl)-N-(benzimidozolyl-2-methyl)-m-tolindine.

133660. UBE Industries, Ltd. Process for preparation of oxidation catalyst. Comprises in combination the steps of combining (a) a dispersion in which has been suspended a member selected from the group consisting of oxides of antimony and bismuth antimonate, (b) a solution of a salt of a group II metal of the periodic table, (c) a solution of a member selected from molybdic acid and the salts thereof, and (d) a solution of bismuth salt; adjusting pH of combined solution to 1—8, separating the coprecipitate washing it and then calcining it at 400° to 800°C.

133661. Veba-Chemie AG. Process for the production of catalysts for the polymerisation of Oleeins. Polymerisation of olefins with a catalyst which is formed by reacting tetravalent titanium compound with alkyl aluminium compound in saturated hydrocarbon.

November 18

133662. Donetsky Filial "Vnipicheremetenergoochistka". Method of Producing cold and an absorption type refrigerating plant performing this method. Comprising an evaporator of the coolant, an absorber a regenerator.

133663. Prodyut Kumar Malik. Improved picking stick for overpick loom. Comprises a tail part having a groove cut around it for placing a splitted plastic pulley and a metal bridge fitted across said groove, further grooves provided with perforated metal belts. the head part having a hole with a splitted wooden or plastic ring fitted therein.

133664. Void.

133665. Void.

133666. Void.

133667. Joseph Lucas (Industries) Limited. Ignition switches. Comprising a casing a rotor first and second fixed contacts bridging member an arcuate cam track said bridging member being resiliently urged into engagement with said cam track and therein the movement of the rotor is governed by the arrangement of said cam track.

133668. Dunlop Holdings Limited. A method of molding a hollow rubber article and an apparatus therefor. (November 23, 1970). The article is first formed in two halves each half being moulded in a female mould cavity from rubber in an uncured state, each half being provided with a locking sprue to prevent displacement of the half within the mould cavity the mould is pressurised by air inert gases and the two halves of the article are then brought into contact and joined together under half and pressure.

133669. Hindustan Lever Limited. Niacin-containing skin lighttening compositions. Comprising niacin, Ultra-violet absorber in the range of 290-360 mm and a cosmetically and physiologically acceptable carrier.

133670. Standard Brands Incorporated. Process for the isomerication of glucose syrups. Subjecting a glucose isomerizing enzyme in a glucose contatining liquor containing a small amount of a water soluble salt of sulfurous acid sufficient to reduce the formation of color bodies, to isomerizing conditions.

133671. Transelektro Magyar Villamossagi Kulkereskedelmi Vallalat. Improved Electric Storage Battery. Comprising a main and an auxiliary battery connected by a switch means so that in one operation the auxiliary battery may be disconnected from main battery and connected to ignition output of the storage battery means.

133672. Void.

133673. Mitsui Toatsu Chemicals Incorporated. A process for removing a dust. Comprises passing a gas containing the dust through a layer of porous material having a high porosity of noncellular foams and impregnated with a solvent for the dust.

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133674. Ramesh Annappa Managave. Device converting rotary motion into reciprocating motion. Comprises a belt or chain passing over pulleys; a plate which are mounted a pin and spring and a link of trolley guided in guideway having adjustable stops.

133675. Yamanouchi Pharmaceutical Co. Limited. Process for the preparation of N-(diethyl-amino-ethyl)-4-amino-5-chloro-2-methoxybenzamide. A process for the production of N-(diethyl-aminoethyl) -4-amino- 5-chloro- 2-methoxybenzamide from p-amino-salicylic acid, characterized in that p-aminosalicyclic acid (I) is reacted with a methylating agent under anhydrous conditions to give methyl 4-amino-2-methoxybenzoate (II). which is then submitted. in random order, to chlorination with phenyl-iododichloride, amidation with N-diethylethylenediamine and, if desired, hydrolysis by means of an alkaline hydroxide of the methylester group before or after the chlorination in which case phosphorus trichloride is used along with N, N-diethylethylenedimine in the amidation step.

133676. Council of Scientific and Industrial Research. A strain gauge flow transducer. Characterised in that the strain gauge of the transducer is cemented to a diaphragm which divides a main chamber into a leak tight flow chamber and a leak tight gauge chamber, the chamber being connected in series with fluid flow and the gauge to an electrical recording system.

133677. Farbwerke Hoechst Aktiengesellschaft Vormals Meister Lucius & Bruning. Process for the manufacture of water-soluble monoazo dyestuffs. Diazotizing an aromatic amine and coupling with a coupling component.

133678. Dr. Kurt Herberts & Co., Gesellschaft Mil Bescharankter Haftung Vorm. Otto. Lours Herberts. Process for the production of a Nitrogen containing Modified Polyester. Condensing an aromatic polycarboxylic acid and a polyhydric alcohols.

133679. Void.

133680. Egon Scheubeck. Shaft coupling. Provided with at least two diametrically opposite set-on coupling bolts a square tube being pushed over shaft ends while the coupling bolts come to lie in opposite corners of the square tube piece.

133681. Void.

133682. Void.

133683. Beck & Co, AG. Improvements in or relating to process for the manufacture of polymers containing hydantoin groups. Comprises reacting polyaminoamide compound in the form of a solution of not more than 30 per cent by weight in a solvent with a diaryl carbonate at temperatures between 100 and 250°C.

133684. Ugine Kuhlmann. Improvements in or relating to a process for extracting wet method phosphoric acid. A process for the purification of wet method phosphoric acid by selective extraction by means of a solvent, in a a nitric medium should the occasion arise, the said process being characterized by the combination of the following three steps: (a) treatment of wet method phosphoric acid with a solvent for phosphoric acid, which provides an organic solution of pure phosphoric acid which is recovered. and a residual product containing impure phosphoric acid. (b) treatment of said residual product with a solvent for phosphoric acid in the presence of nitric acid, which provides a mixed organic solution containing pure phosphoric acid and nitric acid; (c) treatment of the said mixed solution with ammonia which results in the production of pure ammonium nitrate and monoammonium phosphate, it being possible to cause the latter to crystallize outside the solution.

133685. Joseph Lucas (Industries) Limited. Electromagnetic actuating device for fuel valve for an internal combustion engine. (November 25, 1970). Comprising first and second switiches in series with a first and second electromagnetic actuating means to arrange it during starting and stopping of the engine to open and close a valve.

133686. Colgate-Palmolive Company. Dentifrice composition. (November 27, 1970). A dentifrice composition comprising an effective amount of 1,6-Di-(p-chlorophenyl biguanidohexane) and a polishing material of finely divided alpha alumina trihydrate.

133687. Void.

133688. Void.

November 22

133689. Orissa Cement Limited. Improved refractory nozzle. Refractory nozzle for steelplants and foundries comprising an annular cylindrical outer shell an inner lining of magnesite or in combination with titania, alumina, chromium oxide etc., characterised in that the outer shell is provided with a serrated, roughened or recessed inner surface.

133690. Nagesa Rao Bhaskar Manay. Material lifting device by vacuum method. Comprising a flat rubber dise with its peripheral flange tightly fitted over the peripheral flange of a hemispherical metallic housing, a tension rod slidingly positioned in a vertical hole in the top most position of the housing, the lower end of the tension rod being tightly to the rubber dise while to the upper end is fitted a lever by means of a pin.

133691. Void.

133692. The Goodyear Tire & Rubber Company. A tire building machine and method of building pneumatic tires. Comprising a drum of generally cylindrical configuration and radially expandable end portions which are radially expandable from a first diameter to a second larger diameter, means for redially expanding the central portion of the drum simultaneously with the expansion of said end portions, bead gripping means disposed axially outwardly of and closely adjacent each end of the drum, each bead gripping means being expandable radially of the drum between a first diameter not substantially greater than said first diameter of the said end portions and a second larger diameter substantially less than said second diameter of said end portions, means for expanding each of said bead gripping means to said second diameter thereof, and means for expanding each of said end portions to said second diameter subsequent to expansion of said bead gripping means to said second diameter thereof, said center portion with said end portions forming a generally cylindrical rigid surface when said end portions are at said second diameter thereof.

133693. The Laitram Corporation. Module for constructing linked combination first and second plurality of link ends of identical width each being formed to circumscribe a pivotal hole, an intermediate section integrally formed and joining said first an second pluralities, said intermediate section including at least one cross-rib.

133694. Void.

133695. Uss Engineers and Consultants, Inc. A continuous casting machine. Comprising a bending assembly bearing means carried by it and engaging rails fixed to support frame, means for locating the assembly in casting receiving position and moving it therefrom.

133696. Void.

133697. Void.

133698. Midland-Ross Corporation. Knucple type railway car coupler. Comprising a forward nose portion and a rearwardly extending tail portion, the knuckle being adapted for pivotal mounting in the head.

November 23

133699. Void.

133700. Council of Scientific and Industrial Research. Improvements in or relating to the production of high hardness stteels. Heat treating steel of composition—C—.02.05 per cent, Ti-3-5 per cent Si-0.5-4 per cent, Mn-.5 to 5 per cent, Al-.5 to 1 per cent Fe below, to a solution treatment at 1200-1250°C, and then precipitation hardening the same.

133701. Council of Scientific and Industrial Research. A process for the production of bisphenols by the reaction of phenols and ketones. By the reaction of an aromatic hydroxy compound with a ketone in the presence of a catalyst consisting of concentrated hydrobomic acid, concentrated hydrochloric acid and alkali metal sulphide as promoter.

133702. Void.

133703. Void.

133704. Void.

133705. Malik Paul George. Arecanut sheiling machine. Comprises a vertically collapsable quadrilateral frame operated by a handle and linked with a wedge and a pair of arms loosely joined at their lower ends.

133706. Joseph Lucas (Industries) Limited. Contact breaker assembly. (November 24, 1970). Includes adjustment device acting between angle plate and mounting plate and operable to move the angle plate and locking plate relative to the mounting plate in a manner to adjust the position of cam follower of heel member around the periphery of the cam and locking means operable to lock the angle plate against movement relative to the mounting plate.

133707. Bayer Aktiengesellschaft, formerly known as Farbenfabriken Bayer Aktiengesellschaft. Flame retarding agent or rubbers. Comprising chloro paraffin and zinc or alkaline earth borate.

133708. Bayer Aktiengesellschaft, formerly known as Farbenfabriken Bayer Aktiengesellschaft. Process for dyeing and printing of natural and synthetic materials. Characterized in that a water soluble azo dyestuffs which is from sulphonic acid and carboxylic acid group is used.

133709. Colgate Palmolive Company. Improvements in or relating to dentifrice composition. (November 27, 1970). Comprising an effective amount of a mono fluorophosphate and a polishing material of finely divided alpha alumina thrihydrate the particles of which have an average size of about 2.5 to 11.5 microns.

133710. Farbwerke Hoechst Aktiengesellschaft Vormals Meister Lucius & Bruning. Process for the manufacture of copper complex monoazo dyestuffs.

133711. The Lubrizol Corporation. Method of flocculating solids suspended in an aqueous medium. Method of flocculating solids suspended in an aqueous medium which comprises adding to said medium an effective amount of a water soluble polymer.

133712. Void

133713. Void.

133714. Amsted Industries Incorporated. Railway coupler. Characterised in that the thickness of the rear spherical wall is equal to or greater than the thickness of the side walls.

133715. Claude Hector May. Improvements in vapour generators. (December 4, 1970). Comprising reservoir having inlet duct, screen having holes, internal combustion engine having outlet from each release valve. second duct to supply liquid to chamber.

133716. Void.

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133717. Union Carbide India Limited. Improved reflector particularly for flashlight torches. Characterised in that the parabelic reflecting face of the reflection comprises a plurality of reflecting surfaces uniformly disposed on the periphery which is polygonal.

133718. Venot-Pic. Societe Anonyme. Improvements relating to combustion chambers for burning devices. Having in a single chamber two or more successive compartments for combustion and for mixing, each of the compartment comprising at least two opposite tangential inlets for recycled neutral fumes.

133719. FMC. Corporation. Attenuation of water waves and control and utilization of wave induced water movements. Comprising plurality of elongated, rigid, transversely curved vanes having elongated edge, & trailing edge, mean for securing said vanes in spaced relation in a planar array.

133720. Colgate-Palmolive Company. Dentifrice. (November 27, 1970). A method for manufacturing a dentifrice containing gas bubbles which comprises making a gas-free or substantially gas-free viscous, extrudible paste or gel dentifrice comprising a dentifrice polishing agent, a dentifrice gelling agent and a liquid vehicle, and mixing with such dentifrice bubbles of gas of a size in the range of 0.1 to 4 millimeters diameter of an equivalent sphere so that there are from 2 to 100 such bubbles per cubic centimeter of dentifrice, said gas being not completely slouble in said dentifrice, the dentifrice being of a viscosity sufficient to maintain the bubbles suspended therein.

133721. Void.

133722. Inland Steel Company. Method for heating free-machining steel prior to hot working. Characterised by the step of providing around steel bodies during their heating, a non-oxidising blanket of combustible gas which extends from exit opening towards entry opening.

133723. Delalande S. A. Process for the preparation of novel derivatives of 1-cinnamyl benzimidazole. Comprises reacting 2-methyl benzimidazole with cinnamyl chloride in presence of sodium hydride in dimethyl formamide.

133724. Void.

133725. Hari Krishna Mullick. A pedal operated fluid dispenser. Pedal operated fluid dispenser comprises first member actuable by spring tension force to open the first orifice to dispense liquid in the second orifice in a controlled way, a second member on operation thereof adaptable to actuated first member.

133726. Void.

133727. Dr. C. Otto & Comp. G.m.b.H. Tubular transition piece used in coke ovens. A lip shaped attachment is fitted on the inner periphery of the flange in the transition pieces, and projecting into the latter, which shields at least the top half of said connecting pipe, and in the upper most region of an annular space formed by the wall of the transition piece and attachment is located the downwardly directed flushing water pipe.

133728. Aurobrite (India) Private Limited. An improved hanger for coats, vets and like clothes. Comprising support arms and a hook provided at the common angular part of said support arms a shaped recess being provided on angular part of the said arms for detachably locating an advertising locket therein.

133729. F. Hoffmann-La Roche & Co. Aktiengesellschaft. Process for the manufacture of benzodiazepine derivative. Reacting 7-chloro-1-(2-diethyl-amino-ethyl)-5-(2-fluorophenyl)-1, 3-dihydro-2H-1, 4-benzodiazepin-2-one with hydrochloric acid.

133730. Void.

133731. National Aeronautics and Space Administration. Expandable space frame. Comprising a plurality of hinge joint assesmblies having arms extending outwardly, a plurality of struts, said plurality of struts being connected between said plurality of hinge joint assemblies.

133732. Yoshida Kogyo Kabushiki Kaisha. A method for producing a sliding clasp fastener and a tape for use in said method. Comprises the steps of sewing two interengaged rows of fastener elements on the double carrier tape, dissolving this seam, thus separating the said double carrier tape applying a slider and end stops on the thus separated tapes.

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133733. Nilux Holding Societe Anonyme. The segregation process for the recovery of metals. Mixing an ore with a halide salt and a suitable reductant in a segregation zone and adding steam to the atmosphere in an amount sufficient to increase the partial pressure of hydrogen halide and sufficient to suppress consumption of halide ions.

133734. Ciba-Geigy AG. Treatment of water systems for preventing scale formation. A process for preventing scale formation in which water is treated with from 0.1 to 100 parts per million by weight, calculated on the water of hydrolysed polymaleic anhydride.

133735. Void.

133736. Bireswar Bysakh. Improvement in or relating to a Physio-Therapeutic Massaging Appliance: Comprises, in combination, a power-unit producing pulsations of a jockey-head, a sheathed flexible shaft assembly having an end fastened to the power-unit, a core-chord passing therethrough interconnecting the jockey head and a clamping device for attaching to an applicator assembly.

133737. Void.

133738. Farbwerke Hoechst Aktiengesellschaft Vormals Meister Lucius & Bruning. Process for preparation of water soluble diazo dyestuff. Sulfanilic acid is diazotized indirectly and coupled with m-toluidine and the resulting diazo suspension is diazotized and then compled with 2-amino-5-naphthol-7-sulfonic acid.

133739. Mikhail Anatolievich Trzhetsvak, Mikhail Ermilovich Frolov, Leonid Ivanovich Lyaljushkin. Alexandr Ivanovich Kalganov, and Adam Pavlovich Marjushkin. An apparatus for laying electrolytic coatings. Horizontal guides installed parallelly to baths and drying unit, carriages moving along horizontal guides, vertical rods passed through carriages and adapted to be vertically displaced by hoisting mechanisms mounted at each unit cantilevers are secured to the upper end of rods.

133740. Fairchild Camera & Industrial Corporation. A method of fabricating integrated circuits with oxidized isolation. Comprising a semi conductor epitaxial layer which comprises pockets of epitexial semi conductor material laterally spaced from each other and annular shaped regions formed of oxidized portions of semi conductor material surrounding each pocket said annual shaped regions extending through epitoxial layer to PN isolation junction and the top surface of annular shaped regions being substantially coplanar into the top surface of epitoxial layer.

133741. Inventa A.G. Fur Forschung/Und Patentverwertung. Process for purifying lactams. Characterized in that raw lactum is subjected to a combined process of crystal extraction and distillation under reduced pressure in either sequence.

133742. Inventa A.G. Fur Forschung/Und Patentverwertung. Process for purifying caprolactams. Characterized in that raw caprolactam is subjected to a solvent distillation, following a distillation under reduced pressure in presence of sodium hydroxide and then to a melt crystallization.

133743. Void.

133744. Kutty Flush Doors & Furniture Co. Private Ltd. Improvements in or relating to structural members. Characterised in that it comprises a cellular core constituted by a plurality of sets of wooden vencer strips a frame circumscribing the core and means for covering the two surfaces of the core.

133745. Kutty Flush Doors & Furniture Co. Private Ltd. Improvements in or relating to door shutters. Comprises two skeletal frames consisting of top and bottom rails fixed to laterally disposed stiles and intermediate members a single continuous laminar member tightly sandwiched between and adhesively bended to said frames.

133746. Void.

133747. Void.

133748. Charles Vivian Crowe. Improvements in Crank units an Crankshaft or the like. Comprising a pair of material coacting disc-like members having a central hole, the member being spaced apart by a circular flange affixed to one or both members arranged eccentrically about the central hole axis.

133749. Savonnerie Clair Bernard. A process for the manufacture of a composite product and an apparatus for carrying out said process. A method and apparatus for the production by extrusion of composite products comprising a means of baric material containing views of at least one other different material.

133750. Teledyne, Inc. Thread cutting die head. Comprises a head body assembly, a plurality of chaser holders mounted on trunnions for rocking movement, means for simultaneously rocking chaser holders radially between open and closed position a retaining plate and cooperating means on said trunnions and retaining plate.

133751. Apaw S. A. Dry cleaning machines. Comprises a cleaning chamber a perforated drum in said chamber, a solvent tank, a soiled solvent tank a vapour condenser a drying circuit a second vapour condenser switch means and means sensitive to the flow of liquid from said condensers to said solvent tank.

133752. Takeda Chemical Industries, Ltd. Process for the preparation of triazolobenzodiazepine derivatives. Comprises reacting a 1-halotriazolo (4, 3-a) (1, 4)-benzodiazepine with NH_3 or a primary or secondary amine.

133753. Void.

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133754. Homi Rustomji Vakil. An electric torch. Comprising cells arranged in series in two rows and connected by springs, the cells of top row contacting the bulb holder and the cell of the bottom row contacting a dimple in a ring conductor through which the circuit to the bulb holder is completed by a switch.

133755. Homi Rustomji Vakil. A recharging unit for an electric torch. Comprising a insulated holder having a TVC electrode connected to a cell terminal and the holder further conducting current from supply through a transformer and rectifier to a flanged conductor. mounted on the holder, which is connected to the TVC terminal of the cell.

133756. Parle Products Private Limited. An improved mechanism for packing laminar articles. Having means to hold each of the moving groups in their respective position inside the wrapper envelope and propel them forwarded comprising two pairs of oppositely disposed supports such two pairs of supports being separated by the length of each group.

133757. Void.

133758. Parle Products Private Limited, assignees of N.M. Chauhan. An improvement in a machine to pack laminor-articles. Comprising a pair of opposing braking pads operated by a can, a pair of symmetrically disposed and oppositely rotating double spikes, a plurality of double spikes being fixed equi-angularly along the periphery of each of a pair of oppositely rotating identical wheels.

133759. Parle Products Private Ltd. (assignees of N. M. Chauhan.) An improvement in a machine to pack laminar articles. Comprising a chute through which are article are fed into a vertical guarded passage, a pair of opposing breaking pads operated by a cam to arrest the flow of articles intermittently, a horizontal platform to move across the vertical passage below the arrested stack of articles. and a plurality of the padded platforms being disposed along an endless conveyor.

133760. Void.

133761. Rists Wires & Cables Limited. Housing for an electrical connector. (November 26. 1970). Comprising in that the housing being rectangular having a passage for connector, abutment means at one end. a pair of ramps with inner surface of one wall at the ends of abutment there is respective shoulders.

133762. Void.

133763. Joseph Lucas (Industries) Ltd. An improved electrical apparatus such as ignition distributors and ignition coils for road vehicles. (December 3, 1970). Wherein a flexible insulating sheath engaging a collar connected to a high tension terminal is formed from a mouldable synthetic resin material which does not contain a halogen.

133764. Joseph Lucas (Industries) Limited. Electrical lamp assemblies. (December 2, 1970). Including a cover engageable with a bulb holder for supporting a bulb and a mounting plate for the assembly formed integrally with said cover.

133765. Arbeitstelle Fur Molekularelektronik. A method for group integration of integrated circuits with partial-individual transit path arrangement. Characterised in that a number of homogeneous integrated circuits is combined to a block, the total quantity of which forms a transformation raster system, the junction fields of a number of selected functional integrated circuits are transformed within each of these blocks through transformation transit paths to other junction fields, the integrated circuits on the substratum are covered with a homogeneous insulator layer in which by application of a first partial-individual photo pattern, ruptures are produced to the junction fields of all functional integrated circuits selected for the transformation, that on the thus structured insulator layer a metal layer is separated and by its structuring, with the help of a second partial-individual photo pattern, the transformation transit paths with the transformed junction fields are produced, and that finally, by utilising further insulator layers, metal layers, and photo patterns with rigid information content, the coupling of the transformed junction fields to the group integrated circuit is effected.

133766. Metallgesellschaft AG. and Veba-Chemie AG. Process of recovering pure maleic anhydride. Characterized in that the process is carried out continuously in steps in such a manner that in a first step maleic acid is decomposed by heat into maleic anhydride and water and fore running is separated, and in the second step pure maleic anhydride is continuously distilled off overhead.

133767. Veba-Chemie AG. Metallgesellschaft AG. Process of recovering pure maleic anhydride. The raw mixture is heated with desiccant and subjected to column distillation.

133768. Kjell Jakobsen. Improvements in or relating to laminates. Comprises applying an adhesive solution in a volatile solvent on a first and second layers of foil material, vaporizing the solvent, leading the adhesive supporting surface of the first layer into contact with a supply of expanded plastic beads, pressing the beads and locking the beads by causing the adhesive supporting surface of the second layer to engage with the free surface of the plastic beads.

133769. Karl Gunnar Ohlson. Improvements in or relating to methods in the production of plant-mixed asphalt mixes for paving purposes. Comprises dividing the mineral aggregate into a coarse and fine portion, coarse portion is admixed in the mixer with all the binder required for the mix and all the surfaces of the coarse portion are coated with the binder whereupon the fine portion is introduced to encapsulate the binder film on the surfaces of the asphalt coated coarse particles.

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133770. Void.

133771. Void.

133772. Swiss Aluminium Ltd. Production of aluminium by electrolysis. Comprising maintaining an interpolar distance of 5 to 6 cms. an aluminium oxide covering of 14 to 16 cms. thickness on encrusted surface, an anode current density to produce as much heat as the cell can carry away as losses after deduction of heat for decomposition of aluminium oxide, heating raw material, while electrolyte temperautre is between 940° and 975°C.

133773. Combined Engineered Products Limited. Gear cutting machines. (November 30, 1970). Comprises a stationary mounting structure, workpiece securing means, carriage with propelling means, a gear cutting tool with position sensing means and controlling means.

133774. Joseph Lucas (Industries) Limited. Voltage regulators. (December 11, 1970). Comprising a resistance chain, input, intermediate and output transistor, zener diode, first and second encapsulated silicon chip, printed circuit board and heat conducting container having base and side walls.

133775. Void.

133776. Stamicarbon N. V. Process for the polymerization of alkenes. Comprises effecting the polymerization in a liquid organic phase in presence of a catalyst dissolved therein, the catalyst being obtained by forming a mixture of titanium compound, magnesium compound and an aluminum compound.

133777. Void.

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133778. Void.

133779. Council of Scientific and Industrial Research. Process for recemisation of hyoscyamine for production of atropine. By heating for a short time (1 hour or 2 hours) hyoscyamine in a suitable organic solvent such as ethyl alcholol or N-butyl alcohol, or in a suitable organic base such as pyridine or diethylamine or in organic solvent like ethyl alcohol or benzene containing the organic base such as pyridine or diethylamine.

133780. Void.

133781. Void.

133782. Shell Internationale Research Maatschappij N.V. Process for manufacture of synthetic fibres and fibres produced thereby. (November 30, 1970). Comprises profiling a molecularly orientable polymeric web by impressing into its surface longitudinally extending grooves, stretching and profiling the web.

133783. Sherritt Gordon Mines Limited. Method and apparatus for producing from a slurry of a mixture of solid particles and solution of stream of mixture of solids and solution having a controlled density (January 11, 1971).

133784. USS Engineers and Consultants, Inc. Recuperative furnaces. A recuperative furnace in which a recuperator is formed by ceramic tiles arranged to form a series of air passages and a series of flue gas passages in a heat exchanging relationship, one end of said air passages receiving air and the other end discharging air into an air tunnel which is in communication with a combustion chamber through an entry port connected with means supplying combustible gas to said flue gas passages being connected with said combustion chamber through a flue gas port thereof for receiving burnt gases escaping from the other end of said flue gas passages, characterized in that the area of the entry port is at least approximately 75 per cent of the area of the air tunnel, and the flue gas port area is at least approximately 75% of the total area of said flue gas passages to prevent air leakage into the flue gas passages.

133785. Siemens Aktiengesellschaft. Improvements in or relating to V. H. F. heterodyne circuits. (August 19, 1971). Comprising a mixer stage which is supplied with a harmonic of a heterodyne oscillation supplied by an oscillator output being fed to the mixer stage via a filter circuit, said oscillator being provided with an automatic frequency control circuit.

133786. Siemens Aktiengesellschaft. Improvements in or relating to frequency multipliers. (August 26, 1971). In which a plurality of stages with differing multiplication factors are connected to a common generator producing a single fundamental frequency each stage having its input connected via a switching diode to the generator output and having its output fed via a band pass filter which passes the required harmonic to a common output line.

133787. Siemens Aktiengesellschaft. Improvements in or relating to electromechanical filters. (September 8, 1971). Wherein a sound absorbing layer is situated between the resonators and atleast one housing wall.

133788. Indian Institute of Technology. Improvements in or relating to two-speed three-phase wound stators for induction motors. Characterised in that each phase winding is divided into two sections and connected to each other so as to furnish 6 terminals for two speeds of operation of the motor.

133789. Ian Henry William Anderson. Improvements relating to contraceptive devices. (November 30, 1970). Comprising a body including at least two electrochemically dissimilar biologically inert metals capable of electrochemical interaction in the uterine-vaginal environment to thereby produce a change in the pH of the environment.

November 30

133790. Council of Scientific and Industrial Research. Improvements in or relating to the preparation of para-tolylsulfonylurea. Characterises in heating para-toluenesulfonamide with nitrourea and sodium carbonate in dilute ethyl alcohol.

133791. Council of Scientific and Industrial Research. improvements in or relating to the manufacture of cyclo-hexanone-oxime from cyclo-hexanone. Reducing sodium nitrite with ammonium chloride and cyclo-hexanone with zinc dust in a stream of carbon dioxide whereby hydrooxylamine formed is reacted with the cyclohexanone present.

133792. Void.

133793. Void.

133794. Void.

133795. Void.

133796. Void.

133797. Mitsubishi Acetate Company Limited. Cellulose acetate fiver tobacco smoke filter and process of manufacturing the same. A Callulose acetate fiber tobacco smoke filter which comprises a rod-like cellulose acetate fiber mass and a lubricant applied to the fiber mass, said lubricant comprising a poly-alkylene glycol fatty acid saccharose ester ether and a poly-glycerine fatty acid ester.

133798. Imperial Chemical Industries Limited. Insulated conductor. (December 1, 1970). An insulated electrical conductor having an insulating layer formed of an elefine polymer containing a phosphorus acid derivative.

133799. Societe Des Fonderies De Pont-A-Mousson-. Apparatus for removing parts cast in sand moulds. Overhead conveyor is provided with suspending hooks cooperating with a guide element and a cast appendix of a casting to be removed from each mould.

133800. Sealed Power Corporation. Improvements relating to loading sleeves for use in installing pistons. October 1, 1971). Comprises a cylindrical body having a through bore open at the axially opposite ends, one of said ends receives piston axially therein.

133801. Stamicarbon N. V. Preparation of pyridine. Comprises demethylating β -picoline in gascous phase with steam at 250—360°C in the presence of a metallic hydrogenation catalyst, wherein contact time is 0.5 to 15 seconds.

133802. Siemens Aktiengesellschaft. Improvements in a process for crosslinking of olefin polymers. (April 19, 1971). [Addition to No. 128730]. Characterized in that polymethine is used as radical transfer agents.

133803. Farbwerke Hoechst Aktiengesellschaft vormals Meister Lucius & Bruning. Process for improving the properties of pigment yellow 17. A base is added to the aqueous suspension of the disazo dyestuff to increase the pH-value to more than 8 and then heated to 100—200°C.

133804. Void.

133805. Tony Frederick Newell. Building blocks. At least one of upper and lower sides is having a transversely extending channel and transversely extending limbs formed of said channel, said channel being of dovetail cross section and of a definite width to receive adjacent limbs of two of said blocks disposed in end to end relationship.

133806. Labaz. Process of the preparation of indole derivaties. (December 9, 1970). Comprises reacting appropriately substituted indole with 2-, 3- or 4-cyanopyridine or the corresponding N-oxide derivative thereof.

133807. Void.

133808. Swiss Aluminium Ltd. A method for the production of aluminium by electrolysis. A method for the production of aluminium by electrolysis of aluminium oxide in a fluoride bath, in an electrolytic cell, wherein the frequency and/or the duration of the anode effects is reduced, and the cell current intensity is increased to produce sufficient heat to substantially compensate for the component of useful energy of the reduction in anode effect energy as herein defined.

133809. Void.

133810. Ginsa General Inventors Sociedad Anonima. Process for the manufacture of articles having a load bearing structure of thermosetting plastics materials. Having in cross section at least a first thermosetting plastics layer, an intermediate plastics layer a second thermosetting plastics layer and one or more load bearing connecting elements including the steps of forming the intermediate layer forming the connecting elements and completing the wall structure by applying at least the second plastics layers.

133811. Void.

133812. The Upjohn Company. Process for the production of optically active substituted prostaglandin analogs. Prostaglandin with secondary hydroxy group was treated with silylating agent followed by selective oxidation of the secondary hydroxy group and then hydrolysis.

133813. International Nickel Limited. A process for the preparation of metal flakes.

133814. Jitendra Nath Das. Vehicles including novel steering mechanism. A vehicle including a steering mechanism for steering simultaneously or separately the front wheels and the rear wheels in the same direction or in opposite directions said steering mechanism comprising a main steering member, an auxiliary steering member running through said main steering member; a first connecting link with one of its ends coupled to the main steering member and the other and operatively connected to the track rod of the front wheels, a second connecting link with one of its ends coupled to the auxiliary steering member and the other end operatively connected to the track rod of the rear wheels, said rear wheels being adapted to be steered by said second connecting link in desired direction and according to a desired angle, which may be equal to or less than that through which the front wheels are steered, and a locking means between are main-steering member and the auxiliary steering member, said locking means being adapted to lock or unlock the main and the auxiliary steering members, as and when desired, for the simultaneous or separate steering of the front and rear wheels respectively.

DECEMBER 1

133815. Void.

133816. Void.

133817. Dr. Carl Ullrich Peddinghaus. Hydro-pneumatic piston and cylinder damping device. Characterised in that a compensating chamber in the cylinder is formed as a cartridge having a sealing disc and a punch to pierce the dise by the inward movement of the piston rod.

133818. Joseph Lucas (Industries) Limited. Solenoid for use in an engine starting mechanism. (December 8, 1970). Including a hollow armature, a link member extending into it and a resilient element surrounding said link member and abuting at each end against abutment member engaged with the link member.

133819. Farbwerke Hoechst Aktiengesellschaft vormals Meister Lucius & Bruning. Process for manufacturing water-soluble metal complex monoazo dyestuffs. Process for preparing water-soluble metal complex monoazo dyestuffs which comprises reacting a suitable monoazo dyestuffs with an appropriate metal yielding agents.

133820. Veb Polygraph Leipzig Kombinat fur Polygraphische Maschinen Und Ausrustungen. Device for adjusting the spring force on folding rolls. (April 29, 1971). Wherein two sets compression springs are provided on a shaft between pivot bearings and adjustable steps and the shaft is mounted in a threaded bore.

133821. Ethicon, Inc. Process for obtaining a sterile absorbable surgical suture. Comprises reacting at least 85 mol. per cent and not more than 90 mol. per cent glycolide with no less than 10 mol per cent and no more than 15 mol per cent L(—) lactide in the presence of stannous octoate catalyst, subjecting the copolymer to extrusion, braiding, stretching, annealing and sterilization.

133822. Armando Paulo Pellegrini. Process for the production of dry molasses from sugar-cane or beetroot molasses. Adjusting the pH of malasses with an alkaline agent from 8 to about 10.5 at a temperature of about 60 to 70°C, adjusting the solid concentration to about 70 per cent by weight by evaporation and spray drying the product.

133823. Intre Prinderes "Dimbovita". Process for the quick trannage of semi-products of sole leather. Characterized in that delimed pelts are subjected to acidification in stages using: (i) formaldehyde, (ii) mixture of alpha and beta napthalent sulphonic acid with Hcl, (iii) a strong acid medium and thereafter subjected to tanning with a lanning liquor containing vegetable and synthetic tanning materials in stages of increasing densities of the liquor from 1.035 to 1.085.

133824. Dr. Mudlapur Ramakrishna Ananth. Process for preparing a medicinal inhalant composition for care of material of like fevers. Comprises: (i) pounding or grinding Krishna+Shri Tolasi, garlic, pepper and turmeric seperately and mixing the same, (ii) mixing Neelgiri oil camphor, method and thymol, and (iii) mixing mixtures obtained in steps (I) & (II).

133825. Sandoz Ltd. Process for the production of 1-nitroanthraquinone. Nitrating 1 mol of anthraquinone in the presence of at least 20 mols of nitric acid of at least 90% strength at a temperature between—40°C to+35C°.

133826. Void.

133827. Walter Ruts. Hand tool for opening screw caps. Characterised in that both ends of the draw cord extend with the handle and are held in the handle in such a way that the loop size of the draw cord is adjustable.

133828. Tatabanyai Szenbanyak. Method for the processing of red mud. Contacting the red mud with burnt lime and humic acid or derivative thereof to reduce the alkali metal concentration.

133829. Rust Furnace Company. Heating furnace. Characterised in that at least some of the support systems are bridge-like structures of fluid cooled pipes, each bridge-like structure, spanning the space between its terminal locations.

DECEMBER 2

133830. Joseph Lucas (Industries) Limited. Direction indicator switches. (December 12, 1970). Includes a base a rotor detent means, electrical contacts and first and second cancelling members carried by the rotor, said cancelling members being out of the path of movement of striker when the rotor is in its first position but being engageable respectively by the striker in the second and third positions of the rotor.

133831. Industrie Pirelli Societa Per Azioni. Electricaity distribution cable. Comprising core with screen armour, corrugated conductive tape overlapping edges, phase conductors covered with insulating material and a neutral/earth conductor covered by a sheath.

133832. Sperry Rand Corporation. Controlled relief valves. (October 7, 1971). Comprising a body having an inlet port and an exhaust port, a slidable primary valve controlling flow therebetween.

133833. Bakelite Hylam Limited. Improvements in or relating to laminates. Comprises preparing an assembly of a plurality of resin impregnated core sheets placing this assembly between a pair of metal plates characterised in that prior to the application of pressure and heat there is interposed between each metal plate and the upper surface of the decorative sheet a film of plastic material.

133834. Void.

133835. Void.

133836. Sandoz Ltd. Process for the finishing of textiles. A blend fabric of 67% polyester fibre and 35% cotton is padded with an aqueous dispersion containing 250 g/1 of 50% aqueous dimethylol dehydroxyethyl urea 25 g/1 of $Zn(NO_3)_3 \cdot 6H_2O$ and 200 g/1 of the 25% aqueous trimellitic acid ester.

December 3

133837. Void.

133838. Girling Limited. Improvements in or relating to fluid pressure control valves. (June 11, 1971). Comprises a valve closure member which cooperates in sealing engagement with an annular valve seat and an annular support member surrounding the valve closure member and defining therewith a path for the flow of fluid through the valve.

133839. Girling Limited. Improvements in or relating to fluid pressure control valves. (June 11, 1971). Comprises a valve closure ,e,ner amd defomomg therewith a path for the flow of fluid through the valve.

133840. Farbwerke Hoechst Aktiengesellschaft vormals Meister Lucius & Bruning. Process for preparation of watersoluble monoazo dyestuffs. Corresponding arometic amine is diazotised and coupled with a pyrazolone derivatives and if necessary is then reacted with a salt of thiosulfuric acid.

133841. U. S. Amada Limited. A punch press. Comprising paid of turrets, spaced stationed, drive means, including a pair of fluid accumulators, control means, hydraulic actuator having powered member, means coupling the hydraulic fluid in accumulator, flow control means, first means for sensing.

133842. Ims Limited. A novel device for administering medicaments to the urethal tract. Comprising a barrel having an open end and a closed end, a thrust portion, a fluid passage member terminating within said thrust portion, having a central bore, puncturing means, a flange on said fluid passage member, a urethal tip extending from said barrel and communicating with said central bore, a vial having an open end and a closed end, a resilient reciprocating stopper sealing on the walls of said vial.

133843. Regie Nationale Des Usines Renault and Automobiles pengest. Improvements in a claping of parts by adherence on axial thrust support. Comprising a receiving member, retractable fingers positioned on said receiving member, fixed support members, a retractable centering element, an oscillating thrust rod and indexing fingers.

133844. Council of Scientific and Industrial Research. An improved process for the production of monochloroacetic acid by the catalytic chlorination of acetic acid. Comprising mixing acetic acid with a catalyst consisting of red phosphorus, phosphorus pentachloride iodine and acetic anhydride heating the mixture and passing dry chlomine through the mixture in the presence of diffused light mixing with active carbon and fractionating the mixture.

133845. Industrie Pirelli Societa Per Azioni. Radial cord carcass tyre beads. (October 11, 1971). Comprises one or more carcass plies extending from one bead region to the other, each bead region comprising at least arubber filling, at least a strip of metal cord fabric and at least a sheet of hard rubber compound.

133847. ICI Australia Limited. Formerly Imperial Chemical Industries of Australia and New Zerland Limited. Explosive composition. (December 16, 1970). Comprising at least one oxygen releasing salt, water, at least one fuel and water insoluble particles having gas or a mixtures of gases encapsulated within their interior and fuel material encapsulated within their interior or incorporated within their wall structure or attachable outer surface the said fuel is additional to material forming the cellular structure of the particles.

133848. Kunststoffwerk Gebruder Anger GmbH & Co. Improvements in or relating to an extruder, and to a method of extruding a hollow section of plastics material. Comprising a pair of stators defining an annular extrusion origice and a rotor, stator having spiral groove to feed plastic and reservoir.

133849. Applied power Industries, Inc. A stand for supporting objects. Comprising a frame means including a vertical post, a adaptor rotatably mounted on the vertical post and brake means operatively connected to said adaptor.

October 6

133850. Wilhelm Stahlecker GmbH. Twin top roller unit for a drawing mechanism of a spinning machine. Characterised by the outer race ring are secured to the middle member by means of supporting rings.

133851. Void.

133852. Shell Internationale Research Mastschappij N V. Process for the preparation of an olefin polymer. (December 8, 1970). Comprises contacting an olefin monomer with a catalyst prepared by reducing a transition metal compound with an organo magnesium compound and activating the product using a mixture of an aluminium trialkyl compound and an aluminium dialkul halide.

133853. Union Carbide Corporation. Process and apparatus for separating magnetic particles within arore. Passing an ore containing carrier medium through a confined zone acted upon by a magnetic field such that magnetically susceptible particles within the ore are drawn to the periphery while the non-magnetically susceptible particles remain substantially at the central vicinity of the zone.

133854. Ringfeder G.m.b.H. Draw and buffing gear, in particular for middle buffer couplings on railway vehicles. Comprising a springing device constituted by two housing elements adapted to be displaced telescopically one within the other against the force of a spring.

133855. Void.

133856. Varta Aktiengesellschaft. Improvements in or relating to a terminal assembly for electric accumulators. Comprising a terminal post with longitudinal and transverse bores filled with synthetic resin, bore in casing is also filled, and a round ring provided below said resin.

133857. Abex Corporation. Metal object sensor, particularly connected with each other in consecutive arms of a bridge circuit with their axis normal to the path of the metal object existation means incorporated in two additional arms of the bridge and synchronous detector means coupled to them to produce at least two output signals.

133858. N. V. Philips' Gloeilampenfabricken. Improvements in and relating to semiconductor devices. (December 9, 1970). Characterized in that implanted neutral ions and associated semiconductor crystals lattice damage are present in the resistance region at least in the vicinity of the said p-n junction insuch a high concentration as to significantly improve the voltage linearity of the resistor.

133859. N. V. Philips' Gloeilampenfabrieken. A shaving head having separately sprung blades [Addition to No. 130312] Comprising a circular shear plate and a cutter member which co-operates with the shear plate and has at least one separately spring blade.

133860. Development Consultants Private Limited. An apparatus for testing articles, such as poles. Having a framework comprising at least three arms, an anchoring device for clamping the pole under test, a device for applying load on the pole.

DECEMBER 7

133861. Sprocket Properties Limited. Fluidised heg apparatus and method. (December 7, 1970). Characterised in that the chamber defines four zones namely fluidized zone, a suspension zone a defluidised zone and a recirculation zone, agusoutlet above the recirculation zone and a distributor.

133862. Universal Oil Products Company. Improved vapor-liquid contacting device. Whereby at least a portion of the unflowing vapor is directed against liquid passing over the slanted wall to provide a vapor-liquid mixture of uniform composition and velocity prior to further vapor-liquid contacting over the perforate portion the tray.

133863. Sperry Rand Corporation. Improvements in pumps and motors. (October 15, 1971). Comprising a casing, a rotatable cylinder barrel in the casing and carrying axial pistons which cooperate with an inclined swash plate, a drive shaft and a valve plate perpendicular thereto.

133864. Void.

133865. National Distillers and Chemical Corporation. Vapor phase oxidation of ethylene to acetic acid. Comprises reacting in the vapor phase ethylene, oxygen and water vapor over a supported phosphoric acid treated palladium metal catalyst.

133866. Void.

133867. Void.

133868. Void.

133869. Void.

133870. Void.

133871. Void.

133872. Void.

133873. Void.

133874. Void.

133875. Void.

133876. Void.

133877. Veb Chemiefaserkombinat Schwarza wilhelm Pieck. A process for the production of shaped articles from polymers of acrylonitrile. Process for the production of shaped articles from copolymers of acrylonitrile which soften when heated by forming the co-polymers by means of anextruder and subsequent stretching of the obtained primary products characterised in that the copolymers of acrylonitrile before extruding are mixed with 0.5% to 50% of polymeric substances.

133878. Injecto Pvt. Ltd. Caburettor. Comprises a housing having a float chamber in communication with fuel inlet a valve consisting of a pin-ajet member in said float chamber to provide fuel in atomized state into a mixture chamber and a metering device to co-operate with saidatomizer.

133879. Agroinstruments Corporation, Soil moisture gauge. Characterized in that the porous ceramic body is made of a fired cast raw body prepared from a wet mixture of 10-20 per cent powdered quartz and 90-80 per cent pure kaolin and water.

133880. Danfoss A/S. Electric connecting device for an encased refrigerating machine Comprising U-shaped spring which straddles the cap behind stop faces on the holder by bent hooks, central web, abutment face on casing cap incorporate a guide track or limbs, with projection and bridge element.

133881. Danfoss A/S. Electric connecting arrangement for an encased refrigerating machine. Comprising plug element fitted on guide pins against casing wall, insulating part secured to holder having fixing device for cover.

DECEMBER 8

133882. Mitsubishi Acetate Company Limited. A method of manufacturing anti-bacterial tobacco smoke filters. Comprises lubricating cellulose acetate filament tows with an aqueous emulsion of a lubricant composition containing (a) 10 to 40 parts of a polyethylene glycol branched fatty alcohol ethers or esters (b) 10 to 70 parts of a polyethylene glycol fatty acid saccharose ester ethers or polyglycarine fally acid esters or sorbitan fatty acid esters (c) 50 to 70 parts of an edible oil and forming the lubricated tows into filter tips.

133883. ICI Australia Limited. Slurry explosive compositions. (December 16, 1970). Comprising firstly at least one oxygen releasing salt selected from the group consisting of inorganic nitrates chlorates and perchlorates, secondly water thirdly at least one fuel, and fourthly water insoluble polymeric particles of granules of the vesiculated and/or the retiporous type.

133884. Shell Internationale Research Maatschappij N. V. Mixing apparatus for gases. Comprises a mixing zone containing at one end an inlet, downstream from the inlet a gas velocity and static pressure-stabilizing zone at least one sparging means and an outlet.

133885. Micheal John Xavier. Photographic cemera. Characterised in that a reflecting system or systems being disposed within the housing and an image selective member being disposed in front of the film within the housing.

133886. Void.

133887. Fitzwilton Limited. formerly known as W.&H.M. Goulding Ltd. Production of potassium dihydrogen phosphate/potassium nitrate mixtures. (December 16, 1970). Comprises reacting phosphate rock with nitric acid and then with acid potassium sulphate or potassium bisulphate, the calcium in the reaction mass being balanced stoichiometrically by sulphate and the potassium sulphate and the acid concentrations being controlled to obtain calcium sulphate in a filterable form, then calcium sulphate is separated.

133888. Fitzwilton Limited. Production of potassium dihydrogen phosphate. (December 17, 1970). Comprises reacting potassium chloride with phosphoric acid or condensed phosphoric acid in an amount such as to give at 180 to 325°C with evolution of hydrogen chloride, hydrolysing the complex phosphates in the reaction mixture with water and recovering potassium dihydrogen phosphate.

133889. Saint-Gobain. A vehicle window pane carrying antenna conductor. Carrying antenna conductors in combination with a screening conductor in the form of a closed loop adjacent the edge of the pane.

133890. Aktiebolaget Tudor. Reference electrode for measuring electrode potentials in secondary and primary cells and in batteries. Includes a metal conductor of pure cadmium immersed in an electro-chemically stable electrolyte with a pH-valve controlling effect and enclosed in an inert casing the base of which is provided with a plug of given porosity.

133891. Void.

133892. N. V. Philips Gloeilampenfabrieken. Improvements in or relating to electric discharge vessels. [Addition No. 127231]. A closed holder is placed which is provided with a quantity of one or more substances to be introduced into the vessel and wherein subsequently a desired gas atmosphere is brought about whereafter the vessel is closed and wherein finally the holder is opened by the passage of current through a heating element present in the vessel characterised in that the heating element is wire shaped and forms part of a secondary coil consisting of a single closed turn and placed in the vessel in which coil a current can be generated by induction with the aid of a primary coil placed outside the vessel, the holder being mainly a cylindrical capsule and the part of the secondary coil not consisting of the heating wire being strip shaped and having at least two lugs which engage constricted parts of the capsule.

DECEMBER 9

133893. Council of Scientific and Industrial Research. A draw-off tap for fluid. Characterized in that the conical plug is mode non redundant by providing a single resting surface for the conical plug on the seat and by making the bonnet or spindle independent of the conical plug.

133894. Council of Scientific and Industrial Research. A process for manufacture of cystine from hair. Comprises hydrolysing hair with hydrocloric acid and then neutralising with sodium acetate to precipitate cystine which may again dissolved in hydrochloric acid decolourizing it and reprecipitated with sodium acetate.

133895. Void.

133896. The Fertilizer Corporation of India Limited. An improvement in or relating to the measuring head for manual type differential thermal analysis apparatus. Comprising refractory tube, one end of the tube being closed by a refractory block, the other end being held by a inner metallic socket, the refractory block being provided with at least two separate miltibore insulator, having thermoscauples for measuring heat charges and furnace temperature separately at the mouth of the other end a thermally insulated non metallic block with outlet of the thermocouple wires being provided and held by inner metallic socket.

133897. Madan Lal Saria. Bobbin holder. It consists of two detachable parts, the first part consisting of a crown and the second part consisting of a doubled wetted head and a collar.

133898. Void.

133899. Void.

133900. Void.

133901. Girling Limited. Improvements in and relating to fluid flow control valves. (December 14, 1970). The cross sectional area of each of the guide member flow passages is at least as great as the radial extrance to the passages from the upstream side of the valve, for all positions of the valve member.

133902. Imperial Chemical Industries Limited. Slurry explosive compositions and a method of preparing the same. (December 21, 1970). Comprises at least one inorganic oxygen supplying salt, a solvent, a thickness, a cross linking agent, a fuel and 0.1 to 5% of the total composition, a salt of a primary, secondary or tertiary long chain aliphatic amine which soluble in the said solvent.

133903. Constructions Mecaniques Pierre Hanssen & Cie S. A. Improvements in or relating to a roller assembly for removing folds from webs. Comprises an elongated rigid shaft, a flexible inner sleeve comprising oil resistant meterial enclosing said shaft, bearing means sealing means and a rigid outer sleeve laying an outer surface for engaging a moving web.

133904. Continental Oil Company. A distance measuring apparatus for use in an optical alignment procedure. [Divided out of No. 126015; anti-dated to October 31, 1970]. Comprising elongate shaft means having an optical scale and a contractor element connected at one end of said shaft means.

133905. Void.

133906. Saint-Gobain. Tempering furnace and installation for glass sheets. Having a plurality of transporting rollers and an exit slot defined by the last of the transporting rollers in the furnace and an obturating roller located vertically above the last roller.

133907. Eduard Kusters. Apparatus for the treatment of flat sheet-like products of soft structure as knitted textiles.

fleece and the like for a prolonged time. Wherein the products are continuously conveyed on a path comprising a sequence of vertical loops, on both sides of the path endless guide and tension mebers are disposed and connected in a ladderlike fashion by rigid beams.

DECEMBER 10

133908. Void.

133909. Porvair Limited. Process for making a microporous sheet material. (December 11, 1970). A process for making a microporous sheet material which involves coagulation of a layer of polyurethane composition extended with liquid vehicle such as herein defined by means of a liquid non solvent miscible with the liquid vehicle characterised in that the layer of polyurethane composition extended with liquid vehicle comprises at leat 20 per cent w/w of polyurethane composition such as herein defined, microscopic removable filler particles such as herein defined an non solvent for the polyurethane composition, the amount of non solvent and filler particles being such that the polyurethane composition extended with liquid vehicle is thixotropic.

133910. Clayton Dewandre Company Limited. Improvements in or relating to low pressure switches. Comprising a first body portion supporting a microswitch a second portion rotatably supported on the first and having a plunger adapted to be subjected to fluid pressure to operate an actuating pin of the switch.

133911. Kao Soap Co., Ltd. Process for preparing novel dimer acid esters. Characterized in that methyl oleate is reacted with phenol in molar ratio of 2/1, in the presence of active clay as catalyst.

133912. Nilux Holding Societe Anonyme. Beneficiation of ores. The improvement comprising adding ferrous or ferric oxide to the oxidic material to increase the active iron content thereof.

133913. Billeruds Aktiebolag. Process for manufacturing paper pulp from eucalyptus wood. A process for manufacturing paper pulp from eucalyptus wood characterized in that the eucalyptus wood is used in the unbarked condition and the white liquor used has alkali content higher than that required in the conventional digestion of barked eucalyptus wood.

133914. Burroughs Corporation. Display device including gas cells and liquid crystal cells. Whereby when the cells on fired and discharged, potentials can be applied to cause current to flow from the fired cells through corresponding volumes of the liquid crystals materials and charge the optical characteristic thereof whereby a message displayed by said cells can be displayed by said volume of liquid material.

133915. Bhubneshwar Singh. Improvements in or relating to carbon brush used in electrical machines. [Addition to No. 125704]. Characterised in that a hole is drilled in the carbon block and is metallised and thereafter the pig tail is inserted therein and brazed.

133916. Schubert & Salzer Maschinenfabrik Aktiengesellschaft. Control apparatus for textile machinery. Comprises a pulse stage, a first operating part, a second operating part and a delayed action timing stage.

133917. Schubert & Salzer Maschinenfabrik Aktiengesellschaft. A method and apparatus for stopping and starting one or more open-end-spinning devices. The stopping and starting are carried out while maintaining the speed ratios between the driven elements at a low yarn draw-off speed.

133918. Richter Gedeon Vegyeszeti Gyar R. T. Process for tender textile industrial securing of loose wool. Using ionic and/or nonionic detergent in the presence of one or more protiolytic enzyme(s).

133919. Nichireki Kagaku Kogryo Co. Ltd. Method of producing paving composition. [Divided out of No. 125666. Ante-dated to March 10, 1970]. Method for producing a paving composition which comprises triturating a mixture of asphalt and coal at a temperature below 200°C, thereby to reduce the diameter of the resulting microgranular coal to 1 to 100u and at the same time, to achieve the uniform integral combination of asphalt and coal.

DECEMBER 11

133920. Bayer Aktiengesellschaft, formerly known as Farbenfabriken Bayer Aktiengesellschaft. Process for the preparation of aluminium trifluoride or cryolite. Comprises reacting hydrogen fluoride or ammonium fluoride or alkali metal fluoride with an aluminium oxide the reaction taking place at 20°C to 700°C.

DECEMBER 13

133921. Council of Scientific and Industrial Research. Improvements in or relating to the production of fat liquors for the treatment of leathers. Sulphating the vegetable oil or ester of fatty acids after they are treated with an organo silicon monomer/polymer.

133922. Council of Scientific and Industrial Research. Gravity mixer for solid materials. A number of sets of included chutes and mixing chambers arranged alternatively one below the other, each set of included chutes consisting of parallel chutes, alternative chutes being inclined in opposite directions and direction of chutes in successive sets of chutes being prependicular to each other.

133923. Void.

133924. Investors in Ventures, Inc. Vas valve. Comprising an inner movable component and an outer component housing inner component and having hollow, open-ended tubular extensions extending in opposite directions from said inner component.

133925. The English Electric Company Limited. High voltage monitoring system. (December 18, 1970). Comprising a capacitor voltage transformer, slow response circuit connected to the output of the electromagnetic transformer, an additional impedance connected in the capacitor chain and fast response circuits connected across the additional impedance.

133926. Void.

133927. Veb Rohrkombinat Stahilund Walzwerk Riesa. Steel sheet product for light steel sections. Steel sheet product comprises two layers of steel, the outer layer formed from a soft low pearlite steel while the inner layer is formed of a high strength steel.

133928. Showa Denko Kabushiki Kaisha. Sintered agglomerates and method of producing same. Chromite ore and powdered carbonaceous material are mixed to make Cr/Fe to 1.5 to 4 and carbon co-efficient from 0.5 to 1.0, the mixture is pelletized pellet are used and preheated, and charged in the presence of excess oxygen upto a high temperature zone of from about 1200 to 1500 C.

133929. James Elias Nayfa. Cotton gin rib. Having a roller assembly comprising a non-friction bearing and having a pair of disks each disk having a series of serrations.

133930. Void.

133931. Void.

DECEMBER 14

133932. Void.

133933. May & Baker Limited. Process for the preparation of azapurinones. (December 15, 1970). Comprising forming the triazole ring by treating corresponding diaminopyrimid one compound with an alkali metal nitrite together with an acid.

133934. Pipe Supports Limited. Improvements in or relating to pipe supports. Including a fixed part, a lever comprising two spaced plates, the lever being pivotally mounted on said fixed part and having connector means for connection of the load to be support.

133935. Imperial Chemical Industries Limited. Coloration process. A print paste containing a water-insoluble dyestuff free from fibre reactive groups is printed onto a cellulose material.

133936. Textronix, Inc. Decade ring counter circuit. [Divided out of No. 127115. Ante-dated to June 16, 1970]. Having a pair of first bipolar transistors and a pair of second bipolar transistors collector of one first transistor is, connected to the base of one second from ansistor. other first transistor having its collector connected to the base of the other second transistor, a plurality of bias resistor connected to the bases.

133937. Void.

133938. J. C. Hempel's Skibsfarve-Fabrik A/S. Process and composition for improving the corrosion resistance of a metal surface. (December 14, 1970). A process for blasting metal surfaces and simultaneously applying a corrosion-protecting metal thereto by blasting abrasive particles, carrying the said protective metal onto said surfaces characterised in using abrasive particles to which the protective metal is bound by means of a binder.

133939. Institut Francais Du Petrole, Des Carburants Et Lubrifiants. Process for manufacturing a catalyst used in a process for the selective hydrogenation of pyrolysis gasolines. Comprising impregnating an alumina carrier by means of a solution of a cobalt or nickel salt, drying and calcining, incorporating to the product obtained a compound of group VI. A metal and a nickel or cobalt compound drying and calcining and heat the catalyst obtained with a gas stream containing hydrogen sulfide.

133940. Concast AG. A cover for pouring vessels in continuous casting plant. Wherein the cover is made of a base metal and in reinforced by reinforcing sections of a metal of superior strength encast in the said base metal.

DECEMBER 15

133941. Wilhelm Stahlecker G.m.b.H. Bearing unit for open end spinning turbines.

133942. Void.

133943. Void.

133944. Girling Limited. Improvements relating to shoe-drum brakes for vehicles. (December 17, 1970). Comprising first and second relatively slidable members in which the first member is provided with a longitudinally extending bore which is closed at one end in which works a portion of the second member.

133945. Yissum Research Development Company. A process for producing a cation clay. A process for producing a cation clay, which process comprises (a) contacting a hydrogen clay with a salt containing cation to be exchanged in the presence of an anion-exchange resin in the hydroxide state, thereby exchanging quantitatively the cations of the salt for the adsorbed hydrogen of the clay; and (b) recovering an acid free, salt-free cation clay.

133946. Eli Lilly and Company. Recovery of cephalothin salts. Comprising adding a non-toxic alkali metal salt to the aqueous solution to precipitate the salt of 7(2′ thienyllacetamido) cephalosporanic acid.

133947. Void.

133948. General Electric Company. Shape control sensor for cold rolling mills. Including at least a first and second rotatable rolls having a concave and convex profile against which the strip material is pulled to deflect the same and means for measuring and compairing the force measurements of the two rolls.

133949. Tsentralny Nauchno-Issledovatelsky Institut Bumagi. A method of manufacturing multilayer laminated waterproof paper. Sheets of unbleached sulphate paper are glued together by oil bitumen mixed with polyisobutylene wherein the glueing mixture is in the ratio of 1 : 1 to the weight of paper.

133950. Void.

133951. Void.

133952. Harish Engineering Works. Rotary screen printing machine. [Divided out of No. 132662; ante-dated to August 25, 1971′. Comprises an endless blanket moving over rollers one or more rotary screens first means comprising a bracket for adjusting the movement of the screens. second means comprising a stem projecting from the base of the bracket.

133953. Aladdin Industries, Incorporated. Vacuum bottles having fillers with plastics liners. Characterised in that a downwardly depending portion extends from liner mouth portion and engages the upper portion of protective jacket and retaining means are provided on the downwardly depending portion of liner for holding a closure on the vacuum bottle.

133954. Veb Filmfabrik Wolfen. Photographic films and plates based on silver halide emulsions. (July 26, 1971). Photographic films and plates based on silver halide emulsions which contains an oxonol dyestuff of pyrazolone in at least one layer.

133955. Wiltshire Cutlery Company Proprietary Limited. Knife scabbard or holder. (December 24, 1970). Comprising a hollow housing a knife receiving passage, a carrier member, a sharpening device, knife blade & biasing means.

133956. Snam Progetti S.p.A. Process for the recovery of aromatic hydrocarbons from mixtures containing the same. Comprises extracting with a solvent mixture comprising (a) morpholine (b) water and (c) one other solvent.

133957. Void.

133958. Ciba-Geigy AG. Process for the manufacture of 3-sulphoalkyl-6-hydroxy-pyrid-(2)-ones. A process for the manufacture of 3-sulphoalkyl-6-hydroxy-pyrid-(2)-ones, where 6-hydroxy-pyrid-(2)-ones are reacted with bisulphite addition compounds of aldehydes.

133959. Richter Gedeon Vegyeszeti Gyar RT. A process for the preparation of 9, 11-epoxy steroids. A process for the preparation of 9, 11-epoxy derivatives of steroid compounds from the corresponding 9, 11-halohydrines, which comprises reacting the 9, 11-halohydrines in the presence or absence of solvents with an organic base having a pKa-value higher than 8, at temperatures between the ambient temperature and the boiling point of the mixture.

DECEMBER 16

133960. Shrimati Sarojini Mathur. Oxygen electrode for power sources. Comprising a mixture of natural sand 99% to 70% or its constituent like silicon dioxide or titanium dioxide and acetylene black 1 to 30% and any known wetting binder material and pressed over a conducting grid structure.

133961. Council of Scientific & Industrial Research. Improved orange juice extracting machine. Machine for processing oranges by cutting them in two halves, and separating the pure and peel oil contaminated juice.

133962. Void.

133963. Void.

133964. Void.

133965. Andrew Joseph Toti. Structural assembly joint. Comprising at least one web, a locking flange having convex shape and tooth structure extending along its free edge.

133966. Indian Oxygen Limited. Improvements in compressed gas cylinders. The cylinderical member is open at its upper end and being provided with one or more lateral openings.

133967. Bayer Aktiengesellschaft., formerly known as Farbenfabriken Bayer Aktiengesellschaft. Process for the production of azo dyestuffs. Process for the production of azo-dyestuffs characterised in that azo-barbituric acid is heated with salts or complex compounds or polyvalent metal.

133968. Khodadad Boman Irani. Improved electrode holder for electric are welding. Comprising one hollow cylindrical handle both end being open end to accomodate the head of contact elements, a cap fitted over that end, a second contact elements screw fitted with said first contact elements transverse holes to pass electrodes.

133969. Snam Progetti S.p.A. Process for the recovery of isoprene from mixtures containing the same. A process for the recovery of isoprene from a feed mixture constituted at least mainly by hydrocarbons having 5 carbon atoms and including isoprene.

133970. Void.

133971. Void.

133972. Rabone Chesterman Limited. Method for producing a coated metal or metallised measuring tape, apparatus therefor, and a tape so produced. Which includes the steps of covering a metal or metallised measuring tape with a powdered material, which is depositde electrostatically and heating the powder.

133973. Siemens Aktiengesellschaft. Improvements in or relating to methods of making magnetic material laminations. Comprising a piece of magnetic material is punched out having plurality of parts joined together by narrow connecting portions and one separated to form corresponding number of laminations by breaking the said narrow portions.

133974. Fibreglass Limited. Process for preparing a bonded product from glass fibres. (January 29, 1971). Coating the fibres with a binder composition comprising a phenol formaldehyde polymer, copolymer or terpolymer, urea and a ligno-sulphonate the proportions of urea and lignosulphonate being chosen so that the bonding solids content ratio is in the range of 0.15 to 0.260.

133975. Fibreglass Limited. Improvements in or relating to process for preparing bonded glass fibres. (July 13, 1971). Treating the glass fibres with a binder composition comprising a phenol formaldehyde polymer, co-polymer or ter-polymer as resin in the binder, urea and sodium ligno-sulphonate as a binder setting additive and curing the treated fibres.

DECEMBER 17

133976. Void.

133977. Void.

133978. Mohammad Yasin Abdul Moobin Pathan. Improvements in moped. A moped in which engine comprises a cylinder block with fins, having integral crankease bolted with crank thrust plate having ball bearing housing for main ball bearings a cylinder head having decompression unit and spark plug on top, an overhung type stepped down crankshaft, supported on two main ball bearings, a rubber roller cover for a rubber roller keyed to crank shaft between two main ball bearings.

133979. Sharadchandra Mahadeo Mungi. A holder for indelible ink. Characterized in that in the hollow tip portion, there is provided soft medium such as felt, bunch of nylon tuft, or pressed cotton wad.

133980. Subhash Shankar Marathe. Device for instantaneous relief from water haommer. Comprising a tee branch adapted to be connected by one of its branches to the pump and by another of the branches to the beginning of the rising main, the third branch being connected to one end of a pipe adapted to be connected to the sump well at its other end, a diaphragm made of a metal non-metal or composite material located at said other end of said pipe and closing side pipe.

133981. Mefina S. A. Carrying case assembly for an apparatus, such as sewing machines and cine projectors. Including a top wall, a handle having a horizontal gripping portion with arms at opposite end, a first and second bayonet elements, the handle having at least one latching member.

133982. Mefina S. A. Sewing machine. Characterised in that the case and base are together closing up completely the sewing machine and that the side walls of the case are provided with depressions for tousing the flaps.

133983. Allis-Chalmers Corporation. Improved rotary kiln having a gas-delivery manifold assembly. Characterised in that the gas conducting tubes are connected to a gas delivery manifold assembly, the manifold assembly comprising a pair of annular manifolds arranged concentrically with each other and with the rotary axis of the kiln shell, each manifold having a stationary part connected to the gas supply and a rotary part connected to the gas conducting tubes, the two annular manifolds having diameters smaller than the diametering the kiln shell, and the two annular manifolds being of different diameters, the annular manifold of larger diameter being arranged between the annular manifold of smaller diameter and the end wall of the kiln and arranged to surround a portion of the gas conducting tubes connected to the annular manifold of smaller diameter.

133984. National Starch and Chemical Corporation. Continuous process for the preparation of modified starch dispersions. A process for preparing an aqueous dispersion of a modified starch which comprises continuously and simultaneously gelatinizing and reacting a starch in an aquous medium having a pH of 8 or higher at a temperature of at least 100°C with a monofunctional cationogenic reagent.

133985. Hindustan Lever Limited. A method of preparing an animal feedstuff. (December 23, 1970). Comprises mixing the syrup with a solid alkaline earth metal hydroxide and the mixture is allowed to sit.

133986. N. V. Organon. Process for the preparation of a composition for the detection and determination of bindable substances. By admixing (a) a coupling product of the bindable substance and enzyme, (b) a specific binding protein and (c) antibodies and thereafter and adding the above mixture to a substrate.

133987. Metallgesellschaft A.G. Electrode for the alkali metal chloride electrolysis and process of manufacturing the same. Skeleton of the electrode has a surface covering of a hard ceramic and of at least one metal and/or metal oxide of the platinum metals and said covering is protected by an oxide coating, which is electrically porous and resists the chemical conditions of the electrolysis.

133988. Injecto Private Ltd. Carburettor. Comprising a main and a fair and second auxillary jet chamber an air inlet chamber in communication with a mixture chamber and a metering device.

133989. The tata Iron & Steel Company Limited. Improvements in or relating to mould coating compositions. [Addition to No. 127139]. Mould coating composition comprising 10-20% by weight of felspar, 3 to 10% by weight of grease, and the remainder naptha based oi.

133990. Lajpatrai Chuharmal Vaswani. Circuit for point detection relay. Comprising two silicon control rectifiers connected to a.c. source through state down transformer two d.c. relays connected to point detector through a step transformer, each relay being based by a series connected transformer & condensor.

133991. Lajpatrai Chuharmal Vaswani. Railway track circuit relay. Comprising two silicon rectifiers adapted to receive first voltage and convey to d.c. relay which are connected in parallel by a series connected resistance & condensor and a second-voltage in phase with the first on.

133992. Shri Uttambhai Sambhu Patil. Process for making pencils. Comprising cutting the Jawar to required length piercing a hole through the Jawar, hardening the core and forcing the writing material such as graphite as crayon through the hole.

133993. Void.

DECEMBER 18

133994. Void.

133995. Vinis Products. Air blown toy. Comprising a cylinderical body having a small orifice at one end with an internal bell-mouth opening a narrow tube is inside the body whose one end is sealed with the body, the body is further provided with a side tube for blowing air a thread is passed through the tube.

133996. Void.

133997. Mitsui Petrochemical Industries, Ltd. Improved process for producing terephthalic acid. The exhaust vapor containing the non-condensable gas steam and acetic acid vapour is subjected to fractional distillation and the acetic fraction is returned to the reaction zone and the mother liquor recovered after separation of the terephthalic acid is recycled to the reaction zone.

133998. Void.

133999. Societe Anonyme des Etablissements Roure-Bertrand Fils & Justin Dupont. A process for the preparation of methyl dihydrojasmonate. A process for the preparation of methyl dihydro-jasmonate containing a major proportion of cis methyl dihydro-jasmonate which comprises catalytically hydrogenating methyl (2-pentyl-3-keto-cyclopenten-1-yl)-acetate in the presence of an aluminium derivative.

134000. Void.

134001. Imperial Chemical Industries Limited. Process for the manufacture of polyesters or copolyesters. (December 23, 1970). Comprises polycondensation of a polyester or copolyester precursor or precursors in the presence of a catalytic proportion of a germanium compound and a trivalent antimony compound and in the presence of a stabilizing proportion of phosphoric acid or a phosphate ester.

134002. General Electric Company. Improvements in or relating to apparatus for maintaining constant volume flow rate in suction pumps. Characterised by a suction pump having a flow control valve in its inter side operatively linked to a movable member of a control valve operator and a flow restrictor or its outlet side the pressure differential created across it by the gas flow causing said member to control the control valve.

134003. Artos Gesellschaft Fur Industrielle Forschung Und Entwicklung C.A. Treatment device, particularly for the heat treatment of web-like materials. Characterised in that below and above or only below the treatable web of fabric nozzle system are arranged which consist of nozzle bodies, which bodies are interrupted by vertically slit-lime outlet channels.

134004. Void.

134005. Void.

134006. Void.

134007. Telephon-und Telegraphen-Fabriks-Aktiengesellschaft Kapsch & Sohne in Wien. A process and apparatus for joining a tubular thermoplastic container jacket, by, means of ultrasonics, to a thermoplastic end cap to form a liquid-tight seal. Axially oscillating sonotrode, arranged to function as a combined rolling-over and welding tool, is advanced axially against projecting jacket rim, softening it and rolling it radially inwards over the rim of the cap, the softened rim becoming trapped during this movement in an annular closed chamber, whereupon the sonotrode applies a welding pressure.

134008. Void.

134009. Hindustan Lever Limited. Process for preparing a supported nickel catalyst. (December 21, 1970). Comprises mixing an aqueous nickel salt, aqueous alkali metal carbonate and a support material such that throughout the precipitation a suspension is formed with a temperature in the range 75-95°C and a pH 8-10.

134010. Indian Plastics & Chemicals Private Limited Improvements in or relating to composite wall boards and the like constructional panels and method of manufacturing the same. Forming a core of word and other lignocellulose agricultural wastes, drying, pressing layers of vencer on both surfaces and bonding the layers by adhesives.

134011. Void.

134012. Void.

134013. Scovill Manufacturing Company. Improvements in or relating to valves for pressurible containers. Comprises a resilient sealing ring encircling the plug a distendable steeve over the lower end portion of the plug, the lower end portion of the plug being of decreasing cross-section.

134014. Ciba-Geigy AG. Process for the preparation of fibre-reactive dyestuffs. Process for the preparation of fibre-reactive dyestuff wherein a suitable di-triazino amino compound is reacted with an appropriate dyestuff containing at least one acylatable-NHR group wherein R represents a hydrogen an alkyl or aryl radical.

134015. N. V. Philips Gloeilamfenbrieken. Method of manufacturing an inductive ballast.

134016. Ceskoslovenska Akademie Ved of Praha Czechoslovakia. Method for producing thin walled articles from plastics or rubbers. Wherein a hydrophilic filler fased in synthetic water insoluble cross-linked macromolecular material and containing polar groupsable to find water reversibly, is added to the material to be processed.

134017. Council of Scientific and Industrial Research. A process for making silver power by electrolysis. Characterised in that citric acid and/or tartaric and is added to the bath of silver nitrate before electrolysis.

134018. Void.

134019. Council of Scientific and Industrial Research. A process for making silver powder by electrolysis. Characterised in that a bath consisting of citrates and/or tartrates of silver dissolved in distilled water to which has been added citrates and or tartrates of alkali metal.

134020. Void.

134021. Void.

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134022. Girling Limited. Improvements in or relating to serve motors. (December 22, 1970). A load actuating member is displaceable by the application of differential fluid pressure across a movable wall which incorporates a deflecting plate.

134023. Shell Internationale Research Maatschappij N.V. A process for recovering ethylene oxide. Aqueous ethylene oxide is treated to remove water and the conc. ethylene oxide stream is subjected to phase separation into a condensate stream and uncondensed stripping zone overhead stream the uncondensed overhead stream is contacted with the cool lean aqueous absorbent to produce ethylene oxide rich aqueous absorbate and a vent gas noncondensable, stream and the absorbate and fractionating the combined stream to recover ethylene oxide.

134024. Uss Engineers and Consultants, Inc. Method of making rim-stabilized steel ingots. [Addition to No. 131564]. Wherein teeming is interrupted when the mould is form about 80 to 95 f. full for a time sufficient to allow from $\frac{1}{2}$ to 10 minutes of running action in the ingot mold.

134025. Void.

134026. The Tata Iron And Steel Company Ltd. Improvements in or relating to grip bar for concrete reinforcement. Comprising two continuous longitudinal ribs, interrupted short longitudinal ribs, and inclined ribs located between the continuous ribs and located in interruption between the short ribs.

134027. International Standard Electric Corporation. Tele-communication switchboard. Comprising a frame carrying electrical equipment and at least a first and a second set of electrical terminals connected respectively by electrical conductors to said electrical equipment and to other electrical equipment in which terminals of first and second sets of electrical terminals are inter connected by join per wires.

134028. International Standard Electric Corporation Electrical contact. Comprising a tail to which a conductor can be connected, a first spring leg, a second spring leg which with the first spring leg defines a fork contact and a cross-piece inter-connecting the junction between the tail and the first spring leg and the non-contact making end of the second spring-leg.

134029. Void.

134030. Tata Lakshminarayana, Mamdur Radhakrishnamurthy Surendranath, Rupakula Kasi Viswanadham, Sir Desai Thirunala Rao and Boyapalle Rami Reddy. Process of decuticling sesame seeds. Comprising disentangling cuticles from seeds by soaking in alkali, feed through a device having chamber, rotating chafts, worm assembly having threats.

134031. International Standard Electric Corporation. Network. Characterised in that it is constituted by a plurality of a sub-networks of asymmetrically conducting impedances, the terminals of which are constituted by distinct sets of first and second terminals, each sub-network being able to provide a low impedance path between each one of the first terminals of the set and portion of the second terminals of the set and a high impedance path between each one first terminal of set and the remaining portion of the second terminals of this set.

134032. Societe D'Etudes Scientifiques Et Industrielles De L'Ile-De-France, and Teikoku Chemical Industry Co., Ltd. Process for the preparation of benzemide derivatives. Comprises reacting N, N-diethyl ethylene diamine with phosphorus oxychloride and then the resulting N, N-diethylamino ethyl phosphoramide with 2-methoxy-4-amino-5-chlorobenzoic acid to give 2-methoxy-4-amino-5-chloro-(N-diethyl amino ethyl) benzamide.

134033. Void.

134034. Sandoz Ltd. Process for the production of bis-triazole compounds. Charaterized in that 1-amino-2-hydroxy-4 (naphthotriazolyl-2')-benzene is acylated with 1, 4-diphenyldicarboxylic acid and then the product obtained is condensed.

DECEMBER 22

134035. Orissa Cement Limited. Method of lining or reparing furnace parts with mortar . ramming mass or mouldables.

134036. Void.

134037. Andrew Joseph Toti. Structural unit and method and apparatus for producing same. Includes the steps wherein corner piece of flanges are provided with undercut grooves, the panels and glanges are placed in abutting relation, and portions of the panels at or adjacent their edges are deformed laterally into locking engagement with the said grooves.

134038. Void.

134039. Void.

134040. Void.

134041. Ugine Kuhlmann. Process for the manufacture of hydrazine. (September 6, 1971). A process for the manufacture of hydrazine from ammonia and hydrogen peroxide comprising forming a ketazine and a carboxylamide by reacting ammonia with hydrogen peroxide, a ketone and a nitrile, separating the ketazone and carboxylamide, hydrolysing the ketazine so as to obtain hydrazine.

134042. Void.

134043. The University of Roorkee. Transistorised phase sequence indicator. Comprising a potential divider, a zero-crossing detector two and-gates circuits, the outputs of these gates set or reset a bistable circuit which controls the lighting of the two indicator lamps.

134044. The University of Roorkee. Static inverse definite minimum time-lag over-current relay. Comprising a transactor, semi-conductor bridge rectifier, filter circuit, pick up unit, time capacitor, output device, trip-circuit, auxiliary relay, a voltage stabilizer circuit for biasing pick-up unit.

DECEMBER 23

134045. Void.

134046. Rca Corporation. A semi-conductor device. Comprising a metal layer adhered to semi-conductor substrate having spaced parallel surfaces connected by high step, riser surface has at least two non--coplanar portion for minimizing electrical discontinuity.

134047. Void.

134048. Development Consultants Private Limited. An improved conveying trolley for handling material such as, concrete-mix. Comprising trolley, concrete-mix, framework on wheels, a pair of cross rail on frame work, a receptable mounted on wheels a pair of main rails and a vibrating means for facilitating easy discharge of the material.

13049. Svenska Aktiebolaget Bromsregulator, preumatic cylinderpiston unit for railway brake riggings. (January 12, 1971). Characterised in that the spindle is provided with radially extending clutch surface adapted to co-operate with corresponding clutch surfaces on the piston of the unit upon relative axial movements between the said spindle and piston.

134050. L. Gardner & Sons Limited. Improvements in or relating to nuts. (December 24, 1970). In combination a nut adapted to be received by a radially split clamp plate having means to reduce the split width.

134051. Joseph Lucas (Industries) Limited. Inlet manifolds for an internal combustion engine. (January 1, 1971). Comprising a plenum chamber which has an inlet containing at least one throttle valve and which has a plurality of outlet ducts each adapted to communicate with a respective cylinder of the engine through an inlet valve of the engine.

DECEMBER 24

134052. Ahmedabad Textile Industry's Research Association. An apparatus for obtaining visual representation of moire pattern of pitch bound or metal reeds to check uniformity or non-uniformity of dent and air-spacing in reeds. Comprises a diffraction grating, a source of light, a projection lens, a frame for mounting reeds and a screen behind the frame.

134053. Joseph Lucas (Industries) Limited. Vehicle lamps. (January 13, 1971). Wherein the shape of the recess is non-developable and the reflector being constituted by a sheet of reflective material and having therein a plurality of slits.

134054. Gestetner Limited. Improvements in and relating to duplicating stencils. (January 4, 1971). Comprising two thermoplastic layers each layer having electrically conductive particles dispersed therein having semi-conductive as well as conductive particles dispersed therein.

134055. Dunlop Holdings Limited. Improvements in wheels. (January 25. 1971). Comprising a rim portion having a well with bead-seating portions, the rim portion being secured to disc of wheel which is secured to central region of one of bead-seating portion.

134056. Kimberly-Clark Corporation. Coated electrical insulating paper and method of making it. Paper having a surface coating of a material, insoluble in liquid dielectrics which is present to the extent of between 2 and 15 per cent the total weight of the coated paper, the paper being thinner than the uncoated paper having the same dielectric strength.

134057. Dresser Industries. Inc. Apparatus for presentting the valving mechanism of blending dispenser. Comprising a blending selector, cam means connected to said selector, cam follower means in engagement with said cam, releasable clamping means for coupling free end portion of cam follower means.

134058. Imperial Chemical Industries Limited. Process of steam reforming hydrocarbons. (February 19, 1970). [Divided out No. 126646; ante-dated to May 13, 1970]. Comprising using a catalyst consisting of Nickel or cobalt with 6—30 per cent w/w of free zirconia on a refractory catalyst support containing less than 40 per cent of magnesia.

134059. Void.

134060. Westinghouse Electric Corporation. Cooking appliance for heating cookware, especially glass and ceramic dishes. Includes control means comprising a thermostatic switch and a housing enclosing said switch and shielding it from heater means said housing including a heat conductive part having reflective inner and outer surfaces except for an outer surface portion.

134061. Diamond Shamrock Corporation. An Electrode and method for preparing the same. An electrode consisting of a substrate partially coated with an electrically conductive and electrocatalytically coating of a mixture of cobalt titanate and a valve metal oxide-precious metal oxide solid solution.

134062. Void.

134063. Void.

134064. Ciba-Geigy AG. A process for the manufacture of azo compounds. Comprising coupling the appropriate amine with a 3 sulfoalkyl-6-hydroxy-pyridone-(2), optionally heating the azo compound obtained with metalizing agent.

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134065. Kapur Singh. Folding table. Comprising a rim made of angle irons capable of receiving wooden planks, the legs being coupled with each other, rotatably mounted on tubes welded to under side of the rim.

134066. Void.

134067. Void.

134068. Void.

134069. Void.

134070. Stamicarbon N. V. Improved process for preparing urea. Comprising reacting ammonia and carbon dioxide in a synthesis zone to produce a synthesis solution containing urea, ammonium carbamate and unreacted ammonia, treating the said solution in a treating zone under high pressure, transferring the effluent gases from the treating zone to a condensation zone under high pressure recycling the resulting gas-liquid mixture to the synthesis zone, discharging an over-head gas stream from the said synthesis zone to a washing zone wherein it is washed with ammonium carbamate solution and feeding a solution comprising the enriched wash solution discharged from the washing zone and urea containing solution from the said synthesis zone into said endensation zone by entrainment in a venturi by an ammonia stream which is passed into the said condensation zone.

134071. Kao Soap Co., Ltd. Process for preparing new polyamides. Comprises heating a reaction mixture of a (i) dimeric ester which is linked through the aromatic nucleus of a phenol, (2) a diamine, and (3) a fatty acid of 1—24 carbon atoms.

134072. Mass Transfer Limited. Fluid-fluid contact apparatus. Comprising a packed bed and means for introducing fluids.

134073. Void.

134074. Void.

134075. F. Hoffmann-La Roche and Co. Aktiengesellchaft. Process for the manufacture of 6-aminopenicillanic acid derivatives. Reacting 6-aminopenicillanic acid with an acid.

134076. Monsanto Company, Improved method for vulcanization of vulcanizable diene rubber. Vulcanization of a vulcanizable diene rubber containing sulfur vulcanizing agent.

134077. Mitsubishi Petrochemical Co. Ltd. A method for manufacturing an elongated article. Passing a mixture of an organic peroxide vulcanizable polymer and an organic peroxide through a long-land die having a forming zone and a succeeding vulcanizing zone.

134078. Cummins Engine Company, Inc. Fuel injector. Comprising an injector body having variable volume chamber means provided with an opening adapted to communicate with an opening adapted to communicate with the engine cylinder.

134079. Badische Anilin-& Soda Fabrik-Aktiengesellschaft. Process for preparing azo dyes from 2, 6-diaminopyridine derivatives. Characterized by reacting diazonium salt of β -methoxyethyl ester of p-amino benzoic acid with 2, 6-di-(β-hydroxyethyl)-amino-3cyano-4-methylpyridine.

134080. Gruppo Lepetitis. p. A. New rifamycin derivatives. Contacting refamycin O with an amine in an organic solvent at 15—35°C for 12—120 hours.

134081. N. V. Philips Gloeilampenfabrieken. Arrangement for frequency transportation of analop signals. Characterised in that for correcting asymmetrical distortion in the transfer characteristic of the bandpass filter the arrangement includes a correction circuit which is provided with additional weighting networks connected to the shift register elements and to a second combination network for obtaining a transfer characteristic which is a version of the first mentioned transfer characteristic shifted over a fixed phase angle said correction circuit also includes a second modulator.

134082. N. V. Philips' Gloeilampenfabrieken. Communication system for the transmission of information between two terminal stations by pulse code modulation. Characterised in that at least one of the n-incomming channels of a terminal station is connected to a test signal generator and at least one of n-out going channels of the same terminal station is connected to a supervision device the output of the encoder end the input of the decoder in said station being coupled through a digital store which is controlled by a control unit, the said control unit being proided with a logic circuit producing a timing change between consecutive writing and reading intervals.

134083. Dana Corporation. Piston ring and method of making same. A sealing a piston ring having a bearing surface with a chromium surfacing comprised by a layer of hard chromium on said bearing surface and a layer of etched micro cracked chromium on said hard layer.

134084. Norton Company. Electro-deposition process and apparatus. Comprising contacting and surrounding the surface ot be plated with a mixture of dynamically hard particles and electrolyte having a vibrating motion.

134085. General Electric Company. Rolling mill and method of rolling metal. Wherein the emperically determined power information is stored within the computer memory, proportioning power requirement for each rolling stand and adaptively up-dating the power information by feeding back to the computer, measured parameters indicative of the actual power utilized during rolling.

134086. Hundraj Manghanmal Balani. Improvements in or relating to electric geyser.

134087. Indian Institute of Technology. Improved sintered thrust bearing. Thrust beaing face is devided into a plurality of parts running outwardly from the central portion of the bearing to its circumference, the parts being angularly spaced from each other and having surfaces in one and the same planes corresponding to the plane of rotation, the region between every two adjacent parts being further divided into two sections running outwardly from the central portion.

134088. Indian Institute of Technology. Improved sintered thrust bearing. Thrust bearing face is divided into a plurality of parts running outwardly from the central portion of the bearing to its circumference, the parts being angularly spaced from each other and surfaces in one and the same plane corresponding to the plane of rotation.

134089. Prasannakumar Laxmikant Chakradeo. Luminous indication for level surface. Wherein the long axis of the vial being parallel to the bottom surface of the mereury switch housing which rests on any surface.

134090. Jyotiprakash Kanhaiyalal Saraf. Fabric holding frame for embroidery work. Characterised in that the inner frame is open, provided with two appendages, a spring embedded therein and a ribbed edge corresponding to the inner groove of the outer frame.

134091. Shamkant Ganesh Kulkarni. A lock for telephone instrument.

134092. Hindustan Lever Limited. Process for recovery of oil from exhausted spent earth. Mixing water with the earth in amount from 4—20 per cent by weight of earth, extracting the mixture with a non-polar solvent and recovering the solvent.

December 28

134093. Void.

134094. Void.

134095. L. Givaudan and Cie Societe Anonyme. Separation of-cedrene from the hydrocarbon fraction of cedar wood oil. Reacting cedrene from the hydrocarbon fraction of cedar wood oil with a strong protonating acid having pKa^4 or less and separating the cedrene from the reaction mixture by distillation.

134096. Snam Progetti S.p.A. A pressure vessel and a method of manufacturing the same. Comprising an internal shell or a plurality of superimposed internal shells formed of a metallic material and, over the internal shell(s) at least one external shell formed of a metallic material having a yield point and a creep resistance higher than those of the internal shell.

134097. Void.

134098. Void.

134099. Universal Oil Products Company. Hydrocarbon separation process. Characterized by (a) introducing a purification stream of extract into a second zone of adsorbent with respect to fluid flow in first zone and down stream of third zone with respect to fluid flow in said third zone and (b) periodically advancing in a down stream direction with respect to third flow in zone, through said adsorbent, the feed inlet raffinate outlet, desorbent inlet, extract outlet and purification stream, inlet.

134100. The Glacier Metal Company Limited. Improvements in or relating to bearings. Comprises feeding a metal blank between a pair of rollers, the rollers being driven at speeds such that parts of the arcuate bearing of greater radius moves at a faster speed than the part of the other roller in contact with parts of the arcuate bearing of smaller radius.

134101. Bayer Aktiengesellschaft, formerly Farbenfabriken Bayer Aktiengesellschaft. Process for the production of cellular or porous rubber or plastics articles. Incorporating into the rubber or plastics azo-dicarbonamide as blowing agent and an organometalic compound.

134102. Dresser Industries, Inc. Apparatus for computing and indicating the price of a blended liquid. Comprising a second price computer connected with the totalizing means and with the price indicator means and including a rotatable input means ; totatable ouput means, idler means, first and second end assembly.

134103. Combustion Engineering Inc. Improved diffuser for liquid fuel burners. Having liquid fuel admission means located in a combustion-supporting air stream, the diffuser having a support means, a frusto-conical surface on the support at least a series of widely spaced slots about the frusto conical and tabs extending the face into at least one distinct interior.

134104. Reynolds Leasing Corporation. Process for treating tobacco increasing its filling capacity. [Addition to No. 123351]. By introducing tobacco into an impregnating zone simultaneously introducing said zone and into contact with said tobacco a stream of vapors of an organic compound.

134105. Veb Mansfeld Kombinat Wilhelm Pieck. Electrical discharge system for oxidising gases. (December 31, 1970). Comprising a conically tapered, galvanically cotated cathod insert, the cathode insert projects into the interior of the cathode mount and is partly enclosed by an inwardly projecting thin walled collar on said mount, a cooling water tube to surround the thin walled collar for coding the innert, the collar and the mount, a discharge space in the nozzle and means dividing the working gas in said discharge space to cause the main flow to rotate for restricting the arc and to cause the partial flow to produce a stationary gas zone adjacent the emission face of the cathode insert.

134106. Void.

134107. Farbwerke Hoechst Aktiengesellschaft vormals Meister Lucius & Bruning. Process for the manufacture of water-soluble fibre-reactive azo dyestuffs. Process for the manufacture of fibre-reactive azo-dyestuffs and its metal complex compounds which comprise reacting amino-naphthol derivatives with a diazonium salts of aromatic amines and isocyanates or carbamic acid derivatives.

134108. Ravindra Godbole, A device for soldering. Comprising means for feeding wire to soldering nose, means for heating said nose. feeding means having table, means for reciprocation said table, feed finger, return stop catch, guide tube. which is being heated.

December 29

134109. Void.

134110. Toshihiko Satake, Rotary and flow type grain sorter. Comprising a polygonal cylinder of corrugated plate having ridges and groove with sorting openings, grain supply and discharge means and cleaning means for the said openings.

134111. Shantibhai Ambalal Patel. Shell core shooter machines. A shell core shooter machine comprising a quick locking mechanism, a quick raising cam mechanism, a vented blow plate for shooting the sand for cores and heater plates mounted wth the core box being movable along two guide bars and provided with an arrangement for intermediate movable core box with heater plates for larger production and a water jacket to cool the blow plate, diaphragm valve below blow plate. vibrator and two auto reset timers.

134112. Thambayya Venkateswara Babu. Transistor Tester.

134113. Void.

134114. Void.

134115. Void.

134116. Joseph Lucas (Industries) Limited. Electrical switches. (January. 22 1971). Impregnating the web of a cellulosic fabric with liquid ammonia and quickly removing the ammonia within about 0.6 to about 9.0 seconds.

134117. Bayer Aktiengesellschaft, formerly known as Farbenfabriken Bayer Aktiengesellschaft. Process for the production of hydrofluoric acid and a metalsulphate. Characterized in that the metal fluoride in continuously heated in a gas/solid suspension in counter current with a gas charge of 0.2 to 4 Kg/Nm^3. said gas charge enters the preheating zone with a temperature of from 500 to 1200°C and leaving said zone with a temperature of from 250 to 500°C.

134118. The Upjohn Company. Process of purifying proteins of blood serum or plasma. Consisting (1) separating from plasma or serum an insoluble portion and adding a out 3.5 to about 5 volumes of 0.4 per cent acrinol aqueous solution and recovering it, (2) mixing with soluble portion human erythrocyte stroma or erythrocytes and recovering soluble portion, (3) precipitating gamma globulin by adding acetone or lower alkanol, (4) dissolving the precipitated gamma globulin in phosphate buffer and treating the resulting solution with silica gel, (5) passing the soluble portion over diethyl-aminoethyl cellulose and eluting it with phosphate buffer and (6) recovering gamma globulin from the eluate.

134119. Void.

134120. Westinghouse Air Brake Company. Propulsion and braking control system for railway vehicles. [Divided out of No. 127863. ante-dated to August 4, 1970]. Comprising an electronic operating unit for effecting braking or propulsion controls of the vehicles as desired, a control wire energisable by a variable electronic control signal therein, master control means having handle means, transducer means for effecting variable control signal in the control wire in relation with the position of the handle means, and automatic signal means for effecting variable control signal in the control wire independently of the transducer means but dependent upon the position of the handle means in a preselected position.

134121. Council of Scientific and Industrial Research. Improvements in or relating to methods of plating on aluminium. Which consists in using a bath comprising potassium stannate, potassium cyanide, potassium hydroxide with a chelating agent such as sorbitol mannitol, sodium gluconate or glycolic acid employing a current density of 1.5 A/dm^2 to $10/dm^2$ at 40 to 50°C.

134122. Void.

134123. Void.

134124. Void.

134125. Vsesojuzny Nauchno Issledovatelsky Institut abrazivov ishlifovania. [Moskovsky Gosudarstvenny Universitet Imeni M. V.] Method of producing cubic boron nitride Consisting in that a temperature higher than 1500°C and a pressure higher than 55 kbar are applied to a mixture containing hexagonal boron nitride and an initiator assisting in the formation of cubic boron nitride.

134126. Laxman Govind Arondekar. A device for obtaining pictures of enlarged or reduced dimensions from film negatives or solid objects. Characterised by a splited enlarger into two sections. Upper section and lower section, being provided with means to enable the upper section to be engaged or disengaged from the top of the lower section.

134127. Void.

134128. Void.

134129. Universal Oil Products Company. Vehicle control assembly. (December 31, 1970). Comprising a seat for movement relative to base part through spring suspension, a support connected to seat on which vehicle control are mounted. seat and controls move together relative to base.

134130. American Flange & Manufacturing Co. Inc. closure flange feed apparatus. Having a stationary base, a shuttle mounted for slidable movement on and with respect to said base plate. drive means carried by said base plate for imparting reciprocating movement to said shuttle.

134131. Void.

134132. Robert Linn Somerville. Apparatus for the production of phosphonic acid. Comprising a lower digestion chamber for the basic reaction of phosphate rock and sulfuric acid and affixed to this chamber an upper vacuum crystallization chamber to remove heat of reaction and promote crystal growth the respective chambers being integrally positioned in an askew relationship.

134133. Void.

134134. Void.

134135. Snam Progetti S. p. A. Process for the separation of conjugated diolefines from mixture containing them. Characterized in that extraction is done with a mixture of solvents which include morpholine and at least one of acetonitrile, furfural, aniline, dimethyl-formamide, dimethylacetamide, N-methyl pyrrolidone, methoxypropionitrile, oxygenated derivatives of morpholine and water.

134136. Void.

134137. Alps Electric Co. Ltd. A push-button switch. [Divided out of No. 126434 ante-dated to April, 29, 1970]. Comprising a body a push rod having lateral channels on body sides thereof and longitudinal channel on lower sides adjacent to the lateral channel, a stopper plate having a first cut-out and a second cut-out continuous with the first cut-out and a spring to urge the stopper plate on the inner wall of the longitudinal channels.

134138. Alps Electric Co. Ltd. A push-button switch. [Divided out of No. 126434 Ante-dated to April 29, 1970]. Comprising a hollow body formed with a channel on the inside wall thereof a push rod having a longitudinal channel on one side facing the channel of the body and at the other end with the hole in the push rod a reset spring around the push rod and between the body and a push button attached to one end of the push rod and a leaf spring urging the drive pin in the recess of the push rod.

134139. Jury Afanasievich Melnikov Magnetic system. Comprising an annular magnet disposed within soft magnetically unsaturated screen and an axially magnetized bar magnet the poles of said magnets are in journals order.

134140. Void.

134141. Void.

134142. Void.

134143. Void.

134144. Void.

134145. Void.

134146. Cluett Peabody & Co., Inc. Method and apparatus for quickly treating fabrics with liquid ammonia. Impregnating the web of a cellulosic fabric with liquid ammonia and quickly removing the ammonia within about 0.6 to about 9.0 seconds.

134147. Sinloihi Co. Process for preparation of colored resin particles. Comprises copolymerizing (A) a polymerizable unsaturated monomer having a low affinity with the dyestuff with at least one member selected from (B) polymerizable unsaturated monomers having on or two cyano group and (C) polymerizable unsaturated monomer having a very high affinity with dyestuff and are isoluble or hardly soluble in water in the presence of a dyestuff.

134148. Bedische Anilin-& Soda-Fabrik Aktiengesellschaft. Manufacture of caprolactam. Process for the manufacture of caprolactam by catalytic rearrangement of cyclohexanone oxime in a fluidized bed containing heated boron oxide on aluminimum catalyst wherein molten cyclohexanon oxime or cyclohexanone oxime in an inert solvent is injected into the fluidized bed through the inner tube of a nozzle at a pressure of from 5 to 150° atmospheres and a temperatures of from 50° to 350°C without the use of a gaseous propelly fed to the fluidized bed through the outer annuler gap of said nozzle.

134149. 1. Igor Alexandrovich Yastrebov 2. Vladimir Valerianovich Benderovsky, 3. Alexandr Ivanovich Schepotiev, 4. Alexei Petrovich Lysenko, 5. Petr Alexandrovich Dvornikov, 6. Anatoly Fedorovich Konotkov. A means for transporting an information carrier. Comprising a driving motor connected with a driving shaft interacting with the information carrier, and an assembly for its tensioning.

134150. Gebruder Ortlinghaus OHG. Combined pressure-operated clutch. braking device. Characterised in that the correcting bolts pass through the working space of the ring cylinder piston being sealed fluid tight on the bolt and said piston and thrust washer having displaceable on the bolts.

134151. Farbwerke Hoechst Aktiengesellschaft vormals Meister Lucius & Bruning. Process for the preparation of basic oxazine dyestuffs. Comprises reacting 2-(α-cyanoethylamino)-hydroquinone dimethyl ether with 4-nitroso-3-hydroxy-N, N-dimethylaniline in acetic acid medium.

134152. Farbwerke Hoechst Aktiengesellschaft vormals meister Lucius & Bruning. Process for the preparation of water-soluble reactive monoazo dyestuffs. Comprises diazotising 1-amino-3B-sulphato ethylsulphonyl-benzene and coupling the diazorium salt so obtained with 2-sulphato acetyl amino-5-naphthol-7-sulphonic acid.

134153. Void.

134154. Chief Scientist. Research & Development Organisation, Ministry of Defence. Process for cyclization of rubber. Characterised by preparing 8 per cent solution of masticated natural rubber in benzene, cyclizing it with a 60% dilute sulphuric acid in the presence of phenol, their weight ratio being 1 : 0, 5 : 1. 5 under reflux and a temperature around 80° ± 1°C for 12 to 14 hours.

134155. Void.

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134156. Council of Scientific and Industrial Research. Process for manufacture of bromine from bittern (mother liquor left after the recovery of salt). Chlorinating and steam distilling acidified hot bitterns (pH 3-5. temperature 70°-100°C) in a packed tower 6-8 metres high liquid/gas ratio being 10-30 by wt. liberated bromine being condensed in tapered tantalum condenser. wherefrom crude bromine is fed to a purifier separated in a gravity separator from which bromine water decants back to the tower.

134157. Indian Jute Industries Research Association. An improved process of drawting jute fibres in a spining machine and apparatus therefor. Comprises passing jute silver between roller at feed end through double aprous, being guide belts and finally through delivery rollers draft between feed and rollers and double aprous being called back draft.

134158. Tadashi Kobayashi. Web forming and combining apparatus. Includes first means for dewatering the material and forming it into textured fibre mat, a second means for dewatering fibre mat on a cylinder cold and compressing it into a web and a third means for dewatering the web by a stationary web guide means.

134159. Void.

134160. Sudha Goel. Locker nut. Comprises a nut body and a coil spring housed inside the nut body, a dog projecting from nut body for contacting trailing end of the spring.

JANUARY 3

134161. Cleo Ladell Sainsbury. Geological sample collecting apparatus. (July 30, 1971). An apparatus for collecting geological specimens from the surface of the earth comprising the combination of: sampling means for contacting the surface of the earth and for acquiring a geological specimen from the surface at the point of contact, an airborne vehicle from which said sampling means can be extended, means for extending said sample means from said vehicle. for causing said sample means to contact the surface of the earth, and for returning said sample means to said vehicle.

134162. Pfizer Corporation. Preparation of gem-diarylethylene derivatives. (January 11, 1971). Compounds having anti-histamine activity, and is particularly concerned with the preparation of a class of novel substituted gem-diaryl ethylene derivatives which have the property of blocking the actions of histamine at the so-called H_2 receptor sites, e.g. those which influence gastric acid secretion, but have little or no ability to block the actions of histamine at the so-called H_1 receptor sites, e.g. those which influence bronchial construction.

134163. RCA Corporation. Improved metal-oxide-metal, thin-film capacitors and method of making same. Comprises depositing a first conductive layer forming a first electrode on a substrate. forming and densifying a silicon dioxide layer on a portion of it and depositing a third layer of a conductive material on the silicon dioxide layer forming a second electrode.

134164. Monsanto Company. A process for the preparation of new herbicidal N-(1-alken-1-yl) amino-s-triazine compounds. Comprises reacting cyanuric chloride with N-alkyl-N-alkylidene amine to form 2. 6-dichloro-4- [N-alkyl-N-(1-alkene-1-yl)-amino]-s-triazine which is then reacted with an alkyl amine to form 2-alkylamino-4-[N-alkyl-N-(1-alken-1-yl)-aminoJ-6-chloro-s-triazine and the so obtained compound is further reacted with an alkali metal salt of alkyl mercaptans or an alkali metal alkoxide.

134165. Eli Lilly and Company. Apparatus for feeding and orienting a succession of medicinal capsules and the like in a predetermined position for processing. Comprising conveyor means, loading means, rectifying means, transfer means for transferring the oriented capsule to inspection head having capsule receiving means. capsule spinning means and means for inspecting the capsule surface as it is spun.

134166. Dr. Zac Kutar. An apparatus for preventing pollution of air from smoke for fumes discharged by a furnace. Comprising a first chimney adapted to receive a gaseous discharge from a furnace, a second chimney adapted to receive the outlet of said first chimney.

134167. Mrs. Kamlabai Narayan Rashinkar. Locking device for fuel tank of automobile. Comprising a cap having a hole in an extension piece and losely rivetted to a L shaped bracket having a hole at one end and a cylindrical portion at the other end for a tie bolt fitter to the tank to pass through.

134168. Council of Scientific and Industrial Research. A process for producing greaseproof paper. Comprises treating paper with a solution consisting of glue, glycerine, and alkaline tamarind seed testa powder extract with or without formalin.

134169. Council of Scientific and Industrial Research. A strain gauge transducer. Comprising a strain gauge cemented to a thin sheet of solid material such as metal, plastic mica or the like, one end of which thin sheet is made immovable by fixing it to a solid block not subjected to strain and the other end is free for being attached to the part of a system whose strain is to be measured in a way such that the free end is made to follow the movement of the part of the system to which transducer is attached.

134170. Council of Scientific and Industrial Research. A strain gauge pressure transducer. Comprising a diaphragm deflection of which is monitored by thin sheet attached to it and in the deflection being received by a strain gauge in the form of change of electrical resistance which is monitored by a detecting system.

134171. Ole Jeppe Fjord Larsen. A method of and device for producing and protecting deposits of sedimentary material on the floor of bodies of water. (January 11, 1971). Comprising a flexible carpet a shaft plate beneath the surface of water in upwardly placed relation and parallel to the floor.

134172. Void.

134173. Vsesojuzny Nauchno-Issledovatelsky Institut Zemleroinogo Mashinostroenia. Suction dredger. Comprises a floating hull, a suction member driving wheels, power cylinders at least one driven wheel mounted at the other end of said hull. and at least one more power cylinder all the wheels being capable of positively displaced in the vertical plane.

JANUARY 4

134174. Stamicarbon N. V. Process for copolymerizing conjugated dienes with anionically polymerizable, mono-alkenically unsaturated compounds to copolymers having an improved random distribution. By copolymerizing a conjugated diene with an anionically polymerizable mono-alkenically unsaturated compounds in the presence of solvent with the aid of an anionic initiator as catalyst and also a co-catalyst.

134175. Void.

134176. Eastman Kodak Company. Apparatus for sensitometry of a liquid photosensitive emulsion. Comprising means for exposing a sample of the emulsion to preselected radiation means for developing the emulsion sample means for measuring the density of the emulsion sample both before and after development thereof. and means for recording the respective density measurements.

134177. Chicago Pneumatic Tool Company. Pneumatic tool having combined nut running and crimping mechanism. Comprising socket, work nut, drimping means, operating means, a motor and a drive means operatively connected between the motor and the operating means.

134178. The B. F. Goodrich Company. Improved laminates. Comprising at least two layers bonded together with an aqueous adhesive polymer latex which is present as raised, spaced deposits having an average diameter of about 0.0005" tto 0.05" and a viscosity of at least 10,000 centiposes.

134179. Void.

134180. Void.

134181. Tecumsch Products Company. Improvements in electric motors of motor-compressor units. (November 23, 1971). An electric motor arranged in a motor chamber in a casing and comprising a stator core having run and start windings wound thereon, said start windings being disposed radially outwardly of the portion of said run windings adjacent thereto, a rotor disposed within said stator, a motor shaft carrying said rotor for rotation therewith, said motor shaft having an oil conducting passageway extending axially therethrough, and means for supplying oil from a casing sump to said passageway in said shaft in response to rotation of said rotor, said shaft having outlet means connected to said passageway and oriented relative to said run windings such that oil leaving said passageway via said outlet means is directed towards said run windings to effect cooling thereof.

134182. Void.

134183. **Void.**

134184. Kautex-Werk Reinold Hagen. Method of and apparatus for producing tubular bodies of thermoplastic synthetic resin material. Includes the steps of extruding thermoplastic material to form co-axial tubular streams having longitudinal seams, arranging all seams to be mutually offset in a peripheral direction and radially uniting the streams to form the tubular body.

134185. Poonam Chand Lakhaji Mistry. A power producing plant or prime mover. Comprising a hub having outer rims mounted on shaft supported on bearings over a frame and connected to two sets of arms, each arm having slit centrally on its axis and in between each pair of arms heavy rollers being mounted on shafts, each arm further provided with gravity catch, a guide at centrally lower side of device between rims, a spring loaded impact block, a shaft connecting impact block with two bell-crank levers, each lever being connected with a connecting rod a one end and toothed rack at other end.

134186. Council of Scientific and Industrial Research Improvements in or relating to electroless copper plating bath control over acrylonitrile butadiene styrene. Comprising copper salt composition with dipheylthiocarbone stabilizer.

JANUARY 5

134187. Union Carbide Corporation. Adsorption process for recovery of nitrogen oxides from gas streams. Characterised by providing a solid heat sink and passing the effluent purge gas from the molecular sieve gel bed at least during the period when the temperature of the effluent gas from the molecular sieve bed in at least as high as the purge gas entering the inlet end of the molecular sieve bed, the heat sink having capacity to prevent from entering the silica gel bed after at least 50% of the NO_2 has been passed through silica gel bed.

134188. Imperial Chemical Industries Limited. Slurry explosive compositions. (January 21, 1971). The composition being acidic and containing, as a density control agent, N, N'-dinitrosopentamethylenetetramine.

134189. Universal Oil Products Company. Method of preparing improved hydrodesulfurization catalyst. Characterized by subjecting the composite after first drying to a first calcination for at least 0.5 hour in an oxidizing atmosphere at a temperature from about 260°C to about 371°C and then subjecting to second calcination for about 1 to about 4 hours in a substantially dry oxidizing atmosphere and at a temperature from about 427°C to 649°C.

134190. Alcan Research and Development Limited. Aluminimum recovery method. Heating aluminium containing material and non-metallic compound by electrical induction to a temperature above the melting point of aluminium in the presence of a salt flux for the non-metallic compound.

134191. Void.

134192. **Void.**

134193. The Post Office. Improvements in or relating to clips for interconnecting electrical conductors. (January 11, 1971). Comprising a trough shaped member having a base and two upstanding walls in which tangs are formed in it or a liner of electrically conducting material located within the member.

134194. Industriele Onderneming Wavin N. V. Improvements in or relating to pipe couplings. (September 3, 1971). A sleeve with a conical interior surface is provided around each one of the two pipes to be connected so that the wide ends of the sleeves face each other.

134195. N. V. Technische Maatschappij Bergmann and Societe Grenobloise D'Etudes Et D'Applications Hydraulique (Sogreah). Method and apparatus for separating particle from a liquid. For separating particles from a liquid, th mixture of liquid and particles is introduced into a basi and a substantially horizontal flow is produced in the basi

134196. Bunker Ramo Corporation. Miniature connecto modular. Comprising a pair of connector assemblies, eac assembly having a plurality of modules and each adapte for mounting therein pin or socket contacts.

134197. Void.

134198. Void.

134199. Void.

134200. Void.

134201. Karnatak Engineering Works. Improved roasti device for roasting of grams, coffee seeds, paddy and t like. A furnace in which is located a rotatably mount jacketted heat exchanger-cum-screw conveyor drum form by a pair of coaxial drums rigidily fitted to a hollow a by means of a series of radially projecting spokes welded therewith in spaced and parallel relation with each other, said coaxial drums being separated from each other by four or more longitudinally extending heat exchanger pipe sections open at both ends to form four longitudinally extending passages for instantaneous transfer of heat via said passages, wherein the inner drum carries a screw conveyor having left handed screw threads and the surface of the outer wall of the outer drum carries a screw conveyor having right handed screw threads.

January 6

134202. Void.

134203. Indian Explosives Limited. Method and apparatus for the production of cartridged slurry blasting explosives and cartridged explosives so produced. Comprises metering a predetermined quantity of the slurry explosive, injecting or extruding into a thermoplastic tube which is formed continuously around the extruding head or nozzle, the rates of forming the tube and extruding the slurry are such as to bear a specific filling density and sealing the ends of the filled tube.

134204. Void.

134205. Void.

134206. Indian Explosives Limited. Inorganic oxidiser salt containing aqueous slurry type blasting compositions containing a mixture of fuel gas and oxygen as novel sensitisers. Comprising a mixture of water insoluble fuel gas and oxygen as a sensitising component.

134207. John Wyeth & Brother Limited. Process for preparing indole derivatives. (January 11, 1971). Comprises reacting a ketone with-organometallic compound.

134208. Farbwerke Hoechst Aktiengesellschaft vormals Meister Lucius & Bruning. Shaped articles made of thermoplastic moulding compositions on the basis of polyoxymethylenes and process for the manufacture thereof. Comprising shaping in a conventional manner a thermoplastic moulding compositions composed of a mixture of from 99.999 to 90 per cent by weight of a linear polyoxymethylene and from 0.001 to 10 per cent by weight of a branched or crosslinked polyoxymethylene.

134209. Farbwerke Hoechst Aktiengesellschaft vormals Meister Lucius & Bruning. Process for manufacture of dyestuff preparation comprising a disperse dyestuff and a resinic acid. An alkaline solution of the resinic acid of the acidic modification products thereof is added to the disperse dyestuff, and the resinic acid is precipitated on to the dyestuff by addition of an acid.

January 7

134210. Void.

134211. Esso Eastern Inc. An improved device to fill a liquifiable material in a hot semifluid state in a bag of permeable material. Comprising canisters with trap doors opening in water tank.

134212. Swishflo Private Limited. An improvement in an air-flow mechanism. Comprising air-blowers guiding passage, vanes, rocking lever with open slot having pin, three horizontal circular discs geared to the shaft of a motor, and other shaft.

134213. Suessen Textile Bearings Limited. Improved housing for spindle-insert. Comprises an externally centreless ground cold drawn welded tube having a bore at one end to house the foot step bearing and another bore at the other end to house the neck-bearing, both bores being concentric to externally ground surface.

134214. Homi Rustomji Vakil. A contrivance to apply a pressure sensitive adhesive tape to a uniform surface. Comprising a casing of uniform predetermined width and of a predetermined shape, housing a spool of such tape rotatably mounted on a cylindrical support and provided with a base partly flat and partly concave to itself.

134215. Pfizer Inc. Process for the manufacture of the salt of α-carboxybenzylpenicillin. (April 19, 1971). A process for the manufacture of crystalline disodium α-carboxybenzylpenicillin which comprises the steps of combining an aqueous solution containing from about 10 to 50 per cent by weight of disodium α carboxybenzylpenicillin with n-propyl alcohol; removing the major portion of the solvents by co-distillation with n-propyl alcohol and seperating and drying the resulting crystalline disodium α-carboxybenzylpenicillin

134216. Joseph Lucas (Industries) Limited. Electrical switches. (January 22, 1971). Contact member is resiliently urged into engagement with base plate and casing and being arranged to engage fixed contact during sliding movement of slider, and therein is provided means for mounting the base plate on a conductive support.

134217. Colgate-Palmolive Company. Process for preparing antiperspirant composition. Antiperspirant composition which comprises mixing from 0.01 to 2.0% of an aqueous solution of a benzofuran compound and 0.2 to 20% of a water soluble active agent.

134218. Mining Systems Limited. Sample pulverizing apparatus (January 19, 1971). Comprising a plurality of elongated hollow members held together in side-by side relationship, closure means to seal each end of the members, at least one grinding element positioned in each of the hollow members, and means to impart rotary motion to the plurality of hollow members.

134219. Void.

134220. Schubert & Salzer Maschinenfabrik Aktiengesellschaft. A fibrous material mixing apparatus. Comprises a motor driven carriage provided with means for selectively removing batches of fibrous material from bales means for indicating the quantity of material in each batch and a programmable control device.

134221. Pilao Acos E Refinadores Ltd. Process for manufacture of conical and disc sets for paper-pulp refining machines. Comprises the steps of preparing a separate supporting the body, separately preparing the blades mechanically pre-treated by means of cold rolling so as to have them compacted and strengthened to 300—550 Brinnell.

134222. Veb Polygraph Leipzig Kombinat Fer Polygraphische Maschines und Ausrustungen. Improvements in or relating to printing machines. (May 11, 1971). Comprises an additional rotationally movable eccentric bush, the angular adjustment of which places the forme cylinder obliquely in relation to impression cylinder and in which the inking roller not tangential to the adjustment are are at the same time influenceable thereby.

134223. Jayshree Plastics Private Limited. A dispenser for powdery materials. Comprising a container passage means extending inwardly from aperture means at the bottom of the containers and a spreader.

JANUARY 10

134224. Molina Dass. Device for preventing access of ants and like insects to articles of food. [Addition to No. 124930]. Characterised in that the device is made but of ceramic or thermoplastic of thermosetting material.

134225. Krishnaswamy Sathasivan. A device for increasing the efficiency of rocket. Comprising a cone enclosing the rocket the base of the cone extending below the rocket, a circular metallic plate with a central hole welded to the gas exist and two semi-circular metallic tubes joined together at one of their end to form a single tubing system and having a diameter equal to the gas exit end of the rocket and welded thereto.

134226. Krishnaswamy Sathasivan. A device for increasing the efficiency of propeller air crafts, marine vessels and automobiles. Comprising a metallic cone and a stem welded to the apex of the cone, the stem fitted to the propeller shaft and the propeller blade lying in the plane of the base of the cone.

134227. Krishnaswamy Sathasivan. A device for increasing the efficiency of aero jet engine. Comprising two semi circular metallic tubes welded at one end so as to form an opening having a diameter equal to the gas exit of the engine and welded thereto and a metallic plate having a slot aligned with the gas exit and the outer circumstance welded to a conical portion welded to the air inlet end of the engine.

134228. Licencia Talamanyokat Ertekesito Vallalat. Process for the production of a nutrient culture medium for micro-fungi, chiefly edible fungi. Comprising treating cellulosic materials of at least 50 per cent moisture at atmospheric pressure under aerotic conditions in the presence of thermophile micro-organisms, heated to a temperature of 70°C. and reducing the temperature to below 70°C upto 45-55°C.

134229. Helmut Stickl. Vaccine formulation for oral vaccination against smallpox. Process for the preparation of a vaccine for oral vaccination against small-pox which comprises tritunating a freeze-dried vaccinia vaccine with a dry surface-active preserving agent as well as with a dispersing and a swelling agent. the vaccine so formed being protected by a layer so that it does not dissolve until it enters the duodenum.

134230. Industriele Onderneming Wavin N. V. A. pipe connection. Comprises elastical sealing co-operating with a first pipe part and a wall part surrounding an opening in the arcuate wall of a second pipe part, the sealing is provided with a recess, a helical profile co-operating with an identical screw profile in the first pipe.

134231. Industrie Pirelli Societa Per Azioni. Stitching. Apparatus for tyre-building machine having a building drum. (September 15, 1971). Comprises a horizontal base, two carriages which can be moved along said base in directions parallel to the longitudinal axis of the building drum by a first reversible actuator and in a direction perpendicular to said axis by a second reversible actuator.

134232. Void.

134233. Void.

134234. Void.

134235. Eli Lilly and Company. Process for preparing novel cephalosporin complexes. Comprising commingling N, N-dimethylformamide or N, N-dimethylacetamide with a cephalosporin ester, treating the mixture with a reducing agent and heating it with a basic substance.

134236. Void.

134237. Srinivasan Mani. Gearing and lubricating means thereof. Grooving is formed in the bore of each bush which is in communication with a side face of its respective rotor in a zone located at a position where, as the rotor teeth of lobes successively pass it. the spaces between the meshing teeth or lobes are increasing in volume.

134238. Srinivasan Mani. Gearing and lubricating means therefor. Including at least two meshing rotors of toothed or lobed form having shafts supported for rotation in bores in bush means at least at one side of the rotors, grooving in the cylindrical wall of each bore and passageway means through the bush means having one end communicable with a source of liquid.

134239. Void.

134240. Brahma Bharati Udyog. A container-cum-frame for photo or mirror. Comprising a substantially hemispherical cup like body provided inside with an inner ring near the top leaving a gap for housing a mirror or a photo and a glass and screwed at the top by means of an annular outer ring the device being further provided with a separate stand to hold the hemispherical cup the stand being curved hemispherically at the top to hold that the said cup like body inside the said curved portion.

134241. Jayendra Jagmohan Shah. A device for manufacturing twist stable composite false-twist yarn. Comprises means characterised by a plurality of air spinning and twisting passages, each of said passages having a pair of jet openings. means for feeding rovings from their supply packages and means selectively intermittently controlling compressed air flow from air supply means through said air jet openings.

134242. Void.

134243. Void.

JANUARY 11

134244. Narayanaswamy Durai. Device for frying cereals and pulses. Comprising of two concentric drums. one outer and the other inner one. both rotating together with the aid of a shaft running through the drums and mounted on two stands.

134245. Void.

134246. Shankar Prasad Mukherjee. Solar Water Heater Comprises a metallic container of near semicircular curvature and tapering height, the concave side of which is heat receiving side the horizontal cross-sectional area of which reduces uniformly from top to bottom.

134247. UCB. S.A. and Mikhail Gavrilovitch Siinko. A process for carrying out catalytic fluid-bed ammoxidation reactions. (January 12, 1971). Gaseous reactants are passed through a reactor provided with heat exchanging means in presence of a fluidized bed of catalyst particles.

134248. Dauten S.A. Insect moulting - hormones, and method for their preparation and use. Parts of the plants of the genus Calonyction (Choisy) Hallier F., of the section Ipomaea of Convolvulaceae family are ground to a coarse flour, defatted with hydrocarbon solvent and extracted with a mixture of a chlorinated hydrocarbon and aliphatic alcohol and organic base.

134249. Void.

134250. ICI Australia Limited. A slurry explosive composition of matter and a process for the preparation of such composition. (January 11, 1971). Comprising at least one oxygen releasing salt, water, one fuel and at least one non-crosslinked bipolymeric material.

134251. Oldham International Limited. Improvements in secondary batteries. Comprising resiliently deformable cellfilling and venting tube and tube deforming member carried by the cover and arranged in the filling channel-closing position of the cover the deform the tube so as to locate its inner end above the level of the electrolyte.

134252. Void.

JANUARY 12

134253. Pfizer Inc. Fermentation process for the production of D-mannitol. (July 15, 1971). A process for producing D-mannitol which comprises fermenting candidalipolytica ATCC No. 20297 in an aqueous nutrient medium.

134254. Braunschweigische Maschinenbauanstalt. Device for continuous raw juice extraction by diffusion in sugar industry. A netting permeable to liquid and connected to carriers is located between screen bottom and the material to be leached.

134255. Albright and Wilson Ltd. Compositions containing Dithionites. (January 14, 1971). Comprising at least 50 per cent by weight of a metallic dithionite and a non-surfactant non-polymeric compound containing at least 5 carbon atoms which comprises at least one group of the structure shown in Fig. 1 of the accompanying drawings, wherein the unsatisfied valencies are filled by oxygen, hydrogen or carbon atoms.

134256. Delle—Alsthom. Disconnection coil boxes of oil circuit breakers. Constituted by the stacking of insulating discs each formed by an outer ferrule built into a central rim characterised in that each insulating disc is fitted with reinforcing ribs between the outer ferrule and the central rim.

134257. Void.

134258. Institut De Recherches De La Siderurgie Francaise. A method for the manufacture of pig-iron in a blast furnace comprising supersonic combustion tuyeres and a device for carrying out the same. Comprising supersonic combustion tuyeres travelled through at supersonic speed by a comburant whose speed should be variable in operation between anticipated limits. the spraying of the fuel being achieved by means of a shock-move. a method wherein the presence of the blast is maintained upstream of each tuyere, likened to a generating pressure.

134259. Texaco Development Corporation Continuous process for separating oily refinery sludges. Providing contacting refinery with light hydrocarbons to obtain phase separation with deoiling of the solids and separation of the oil-hydrocarbon from the water-solids phase.

134260. Void.

134261. The Gurdit Institute Private Limited. Improvements in or relating to the manufacture of proteinous resin adhesives. A process for the manufacture of proteinous resin adhesive which consists of the steps of vegetable proteins with or without fortification with casein or other animal proteins like blood albumens and having a protein content, varying from 40 per cent to 60 per cent is mixed with water in an amount of 2 to 8 times the quantity of said proteinous materials, adding 0.5 per cent to 8 per cent alkali, and adding 0.5 per cent to 7 per cent of said solution formaldehyde or formaldehyde generating chemical such as heramethylene, paraformaldehyde or polyvinyl acetate resin so as to form the proteinous resin adhesive solution.

134262. Void.

134263. Void.

134264. Void.

134265. Council of Scientific and Industrial Research. A strain gauge load cell. Comprising a strain gauge connected to an electrical detecting system. the strain gauge being attached to a thin solid sheet one end of which is fixed to a solid block and the other end being free and attachable in a springy contact to a structure the strain or load of which is to be measured.

January 13

134266. Societe D'Etudes De Produits Chimiques. Process for the preparation of -pyridyl carbinol nicotinoyl glycinate. A process for the preparation of pyridyl carbinol nictincyl glycinate which comprises eacting nicotinuric acid on nicotinic alcohol in the presence of sulfuric acid at a temperature comprised between 70 and 150°C.

134267. The Singer Company. Method of forming a patterned cut pile fabric and tufting machine therefor. Comprises inserting a loop through a base fabric completely severing said loop and withdrawing one leg of said cut loop of yarn partially through the base fabric.

134268. Ciba-Geigy AG. A process for the manufacture of azo dyestuffs. Manoazodyestuffs are reacted with alkyl- and arylmercaptans. alkali sulphides and alkali sulphinates.

134269. Automated Building Components (New Zealand) Limited. Improvements in or relating to timber connectors and machines for making the same. Connector comprising a piece of wire having ends thereof cut at an acute angle to the wire axis forming spikes arranged at an angle between 8 to 15° less than a right angle to a central portion.

134270. Void.

134271. Void.

134272. Things. An improved calendar. Comprising a body being adapted to house four groups of strips. the first group comprising ten strips. each bearing at its end one numeral in the series 0 to 9. the second group comprising four strips each of three such strips carrying at their ends one numeral of the series 1 to 3, while the end of the fourth strip being blank, the third group comprising seven strips each of them bearing a day of the week from sunday to saturday being marked on the upper half of the width of the strip, the fourth group comprising twelve strips each of them bearing the name of the month from January to December.

January 14

134273. Varahur Srinivasa Satyanarayana. Oil sealing means for a piston. Characterised in that at least one annular groove is provided on the skirt of said piston.

134274. Varahur Srinivasa Satyanarayana. A piston. Comprising at least one groove adapted to receive a piston ring, at least one hole or port provided in said groove and adapted to be in flow communication with the working liquid.

134275. Varahur Srinivasa Satyanarayana. Lubricating means for lubricating a compression ring of a piston. A first port is provided on the outer surface of the piston ring, a second port provided on the inner surface or side wall of said ring, said ports adapted to be in flow communication with each other.

134276. Varahur Srinivasa Satyanarayana. Piston rings. From the mid-section the ring is tapered towards the end along a curve.

134277. Hirendra Kumar Mullick. A manual cigaratte rolling device. Characterised in that it consists of a metallic frame having a base with two side walls with slots to be engaged by a pair of rollers surrounded by an endless plastic apron.

134278. Herculite Protective Fabrics Corporation. Polymer articles having pesticidal activity and process for making same. Comprising a non porous polymer substrate having at least a solid layer of a polymer composition containing pesticidal activating agent capable of migrating throughout the substrate.

134279. F. L. Smidth & Co. A/S. Grinding mills. (January 15, 1971). Having at least one of the diphragm of grinding tube mill in the form of a composite sieving device comprising two members in intimate contact with each other of which the first thicker member faces the inlet of the mill and has openings whose size is such as to allow the passage of material to be ground.

134280. Legg (Industries) Limited. Battery charging apparatus. (January 14, 1971). Automatic electric battery charging apparatus including means for temporarily interrupting the charging current for periods, which may be referred to as open-circuit intervals, the duration of each of which depends on the fall of battery voltage during the open-circuit interval, including means for alternatively during successive open-circuit intervals, from a predetermined limiting state in one direction and means for detecting if it has failed to return to the said limit to initiate termination of at least a phase of the charge.

134281. Joseph Lucas (Industries) Limited. Battery charging systems for road vehicles. (January 22 1971). Comprises a series circuit connecting one of the output terminals of an alternator to battery the circuit including a resistor the base emitter circuit of a transistor and the ignition switch of the vehicle and means for providing gate current to a thyristor in the path of the transistor as long as battery voltage is below a predetermined value.

134282. Joseph Lucas (Industries) Limited. An electrical switch and lock assembly for use in a vehicle. (January 22, 1971). Comprising a drive member having movable contacts mounted for rotation within a casing carrying fixed contacts and coupled to a barrel of a cylinder lock mechanism and a locking device operating member coupled to the drive member.

134283. USS Engineers and Consultants, Inc. Apparatus for adjustment of side trimmer knife. Characterised in that the bearing box is arranged for movement from and toward the coacting knife and is provided with a nonrotatable adjustment rod which is engaged by a differential screw means.

134284. The Glacier Metal Company Limited. Bearing having a lining the aluminium silicon alloy and method of making the same. Comprises aluminium together with 5 to 15% silicon in the form of platelets being parallel with the lining surface.

January 15

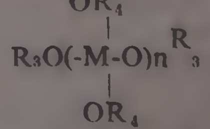
135285. Norm A.M.C. Aktiengesellschaft. Apparatus for chemically purifying sewage. Comprising a basin containing a sedimentation zone, mixing zone, flocculation zone and clear water zone, a partition wall located in said basin extending upwardly above the water level and downwardly into the sedimentation zone, said partition wall subdividing said basin in the first compartment containing said mixing zone and said flocculation zone and a second compartment neighbouring said first compartment said second compartment containing said clear water zone.

134286. Robert Bosch GMBH. Fuel injection pump. Fuel injection pump with a pumping plunger reciprocating in a pumping plunger cylinder rotatable by means of adjusting device variation of its effective delivery stroke and has the control edges which work in conjunction with a least one delivery and return-flow drilling in the pounger cylinder characterised by inlet duct to the delivery drillin an arbitarily adjustable throttle member for the setting o the running speeds.

134287. International Standard Electric Corporation Telephone subscriber's line circuit. Including a feedin potential source a feeding circuit associated with the lin and having two feed terminals, switching means for con necting the source to the feed terminals, a loop test circui and a feeding test circuit all connected to a subscriber's lin to indicate its condition.

134288. Ethicon, Inc. Retention suture bridge. Provid ing a bridge with adjustable means to either increase c decrease suture tension at any time following placement c the suture.

134289. C and A Laboratories, Inc. Process for the pr paration of orthotitanic and orthozirconic acids, alkyl este thereof, and polymers of such compounds. Reacting



$R_3O(\text{-}\underset{OR_4}{\overset{OR_4}{M}}\text{-}O)n^{R}{}_{3}$ where in R_3 and R_4 are same or different and each is H or alkyl of 1 to 12 carbon ato M is Ti Zr and nitrogen with an amino alcoh keto alcohol or glycol.

134290. Colgate Palmolive Company. A cosmetic composition containing S-substituted benzothiohydroximic acid. A cosmetic composition which comprises from 0.0001 to 0.05% of a perspiration inhiviting S-substituted benzothiohydroximic acid in an aqueous medium comprising from 0.5 to 50% of a surface active compound.

134291. Agfa-Gevaert N.V. Process for the production of a multilayer motion picture film containing magnetic recording strips and motion picture film so produced. (January 25, 1971). Comprises applying to the antihalation layer of a film stripes from a coating composition of magnetisable material dispersed in an alkali-insoluble binder and in admixture therewith a cross-linking agent for the alkali-soluble binder of said antihalation layer.

134292. The University of Kerala. Method for the production of polysaccharide from bran and husk. Comprises defatting the bran and husk with a solvent subjecting to enzyme digestion, adding sodium hydroxide and trichloroacetic acid, the precipitated protein being centrifuged and then precipitating the polysaccharide.

January 17

134293. Council of Scientific and Industrial Research. Improvements in or relating to a method for the selective extraction of nickel and cobalt from lateritic ores. The dried lateritic ores blended with sulphuric acid, dried at 100—130°C crushed, preheated, then coasted and the roasted mass is leached with water to extract nickel and cobalt sulphates followed by hydrolysed of the clear leach solution to get neckel and cobalt hydroxides.

134294. Karamchand Premchand Private Limited. Process for the preparation of derivatives of 5-halosalicylaldehyde. Comprises reacting 5-chlorosalicylaldehyde with O-chloro-aniline.

134295. Howson-Algraphy Limited. A method of removing, from a surface, a layer of light-sensitised poly—(vinyl alcohol) containing material which has become insolubilised. (January 25, 1971). Treating the layer on the surface with a liquid comprising an aqueous solution containing periodate ions and thereafter subjecting the layer to pressure and friction by rubbing to remove the same from the surface.

134296. Void.

134297. The Broken Hill Proprietary Company Limited. Method of forming an easy-opening closure in a sheet metal container member and easy-opening closures so formed. Said method comprising at least partially serving a portion of the sheet metal to provide a free edge defining an opening with said severed portion defining a closure member for said opening, characterized in that the size of said opening is reduced by cold working the sheet metal around said opening, whereby to place at least a part of the free edge portion of said closure member and the free edge defining said opening or the interior surface of the sheet metal adjacent said opening in overlapping contact or in overlapping close proximity.

134298. Void.

134299. Knapsack Aktiengesellschaft. Production of acrylonitrile and methacry onitrile. The reaction is effected in contact with a catalyst having a BET-surface area between 4 and 30 square meters per gram and containing the oxides in the atomic proportions of

$$Fe_{0.5-15}Bi_{1-10}Mo_{15}P_{0.03-3}$$

deposited on the silicic acid carrier.

134300. Subhash Janardan Kajarekar. Fastening device. Characterised in that spring insert in the form of a coil spring having diameter greater than tapped hole, spring being made from diamond shape cross-section at wire of rust proof material.

134301. Hariballav Das. A pocket-borne smoking device with fluid-filter. Having a moulded housing with two sections one being the fluid bowl the other being the hollow mouth piece projecting like a curved spout, the bowl having a hole at the top of the housing, a detachably adapted hollow stem with enlarged head for fitting a two chambered 'chilam'.

January 18

134302. Void.

134303. Void.

134304. Richard William Ulbrich. Radiant lining for furnaces, ovens and like. Radiant lining means comprising a plurality of distcrete strands formed into a mat configured to the contiguous portion of the area.

134305. Joseph Lucas (Industries) Limited. Windscreen wiper control system. (January 20, 1971). Including a wiper motor, a switch controlled by the motor.

134306. Joseph Lucas (Industries) Limited. Electrical switches. (January 22, 1971). Including an operating member coupled to a slider member such that during sliding from first position to second a cam follower carried by the slider is moved by a cam surface on the casing against the action of resilient means.

134307. Joseph Lucas (Industries) Limited. Cable clip. (January 26, 1971). Includes a resilient body having therein a groove capable of receiving cable, the body being arranged to be secured to a panel or the like and the body is deformed in a manner to reduce the width of the groove to grip the cable.

134308. Colgate-Palmolive Company. Method of laundering items of laundry with phosphate builder and nitrogen compound builder-free detergent composition. Comprises contacting the items with an aqueous solution containing from about 0.1 to about 0.3 g/1 of $RO\ (C_2H_4O)\ SO_3M$, wherein R is fatty alkyl. n is from 2 to 6 and M is alkali metal, ammonium, lower alkylamino or lower alkanolamino, about 0.1 to 0.5 g/1 of citrate builder, and about 0.07 to 0.2 g/1 of hydrotrope salt, rinsing the articles with water and drying.

134309. Void.

134310. Void.

134311. Void.

134312. Thorn Electrical Industries Limited. Improved tungsten halogen lamp. (January 22, 1971). A linear tungsten halogen lamp having an axially extending coiled filament and a filing of inert gas and halogen.

134313. Pentapharm A. G. Process for the preparation of an enzyme composition from snaxe venoms. The said enzyme composition having at lower doses, a hemostatic activity and at higher doses, a blood anticoagulant activity in humans and other mammals.

134314. Void.

134315. Void.

January 19

134316. The Indian Council of Agricultural Research. An apparatus for measuring the thickness variation of an aligned tuft of cotton and like textile fibres. Comprises a clamp a carriage a measuring device which comprises two metallic plates and a microscope.

134317. Void.

134318. Sealed Power Corporation. Improvements in and relating to piston ring assemblies. (November 3, 1971). Comprising circular corrugated metal strip having ends in abutting relationship and having first & second portion connected by leg, an apperture through each leg and a latch member having stop.

134319. Sperry Rand Corporation. Improvements in valves for fluids. (December 6, 1971). Comprising a body having inlet, exhaust and motor ports communicating with a valve bore having spring chambers at ends, spring means opposing displacement of one spool.

134320. Void.

134321. Hindustan Lever Limited. A chemical process involving sulphonation or sulphation, and apparatus for use therein. (January 20, 1971). A liquid organic material is reacted with sulphur trioxides.

134322. Vsesojuzny Nauchno-Issledovatelsky Institut Abrazivov I Shlifovania. Method of producing abrasive material. Characterised in that the initiator consists of borides of alkali and alkali earth metals having a content of boron which increases the total content of boron in the reaction mixture by at least 10% as compared to the stoichimetric content thereof in the hexagonal boron nitride.

134323. The Standard Oil Company. Process for the manufacture of acrylonitrile and methacrylonitrile. Reacting propylene or isobutylene with a molecular oxygen containing gas and NH$_3$ in presence of a catalyst $A_a\ B_b\ C_c\ D_d\ Fe_e\ Bi_f\ Mo_g\ O_x$ wherein A is alkali metal B is Ni or Co or both C is P or As or both, D is an element of group IIA and IIB of the Periodic Table a is 0 -0.1, b is 0 - 12, c is 0 - 3, d is 0.1 - 10, e and f are 0.1 - 6, g is 8 to 16 and x is determine by valence requirement.

134324. Farbwerke Hoechst Aktiengesellschaft vormals meister Lucius & Bruning. New daylight fluorescent pigments and process for preparing them. A process for the preparation of daylight fluorescent pigments containing an organic flourescent dyestuff and a resin which comprises incorporating an organic fluorescent dyestuff into the resin.

134325. Texaco Development Corporation. Fuel burner and process for gas manufacture. Providing a burner for a continuous process for the manufacture of synthesis gas by the partial oxidation of a first reactant comprising a hydrocarbon with a second reactant comprising an oxygen rich gas.

134326. Prerovske strojirny narodni podnik. Metho
of producing burnt lime and burnt dolomite of fine granula
or pulverulous materials. Pulverulous raw material of grai
size upto 10 mm. are subjected to external pressure of 200–
1500 kp/sq. cm. to produce globules of size ranging fro
15 to 70 mm. for further burning treatment.

134327. Prerovske Strojirny, Narodni Podnik. Metho
for production of cement clinker from a slurry of pulverulo
materials. Characterized in that the raw material is mixe
with lime or with lime and water and treating it in equi
ments for example in briqueting press.

134328. Moskovskoe Otdelenie Tsentralnogo Nauchn
Issledovatelskogo i Proektno-Konstruktorskogo Kotloturbinno
Instituta imeni I.I. A feeder for bulk materials. Feed
comprising a receiving pipe having two ends, a batcher belo
the receiving pipe two scrapper belts travelling over dri
sprockets and drive rollers, said belts having two worki
sides, a receiving table below said working sides, said scra
per belts in the form of chains and scrappers, said worki
sides are at an angle with respect to the receiving table.

134329. Dr. Parampukattil Kerulan Chellappan Pill
Kollamala Govindan Nair Balakrishnan and Susheel Kum
Arya. An electrically conducting paper. Characterized by
coating comprising 65 to 200 gms/litre of polyvinyl alcoh
1.65 to 8.25 gms/litre of anhydrous aluminium chloride a
distilled water.

134330. Dr. Parampukattil Kerulan Chellappan Pill
Kollamala Govindan Nair Balakrishnan and Susheel Kun
Arya. A process for preparing a photo-sensitized pap
Comprises preparing the coating by adding polyvinyl alco
into distilled water, adding thereto anhydrous $AlCl_3$ a
applying the so obtained mixture on the paper.

134331. Void.

134332. Dr. Parampukattil Kerulan Chellappan Pi
Kollamala Govindan Nair Balakrishnan and Susheel Kur
Arya. A process for preparing a developer compositi
Comprises adding a first mixture consisting of a toner
control agent in a liquid carrier in weight ratio of 3:1—
to a second mixture consisting of a mixing agent and
liquid and the toner particles are in a suspended state in
composition.

134333. Dr. Parampukattil Kerulan Chellappan Pi
Kollamala Govindan Nair Balakrishnan and Susheel Ku
Arya. A photosensitive paper. Comprising an electric
conducting base coating a photosensitive coating consistin
zinc oxide, a binder solution and a solvent, and any kn
photosensitive dye or dyes.

134334. Dr. Parampukattil Kerulan Chellappan Pi
Kollamala Govindan Nair Balakrishnan and Susheel Ku
Arya. A process for the manufacture of photosensitive p
Comprises applying a known electrically conducting base
ing on either side of the paper and on side thereof app
a coating of photosensitive solution obtained by first pr
ing binder solution containing resin modified phenolic
of biphenylpropane esterified with pentaerythritol in con
tion with an alkyd styrenated resin, adding to the binder
tion zinc oxide and after the formation of dispersion a
thereto a dye pigment.

134335. Void.

134336. Void.

134337. Void.

134338. Void.

JANUARY 20

134339. DieComp. Inc. Automatic method and apparatus for producing progressive dies. (July 6, 1971). A method for automatically producing a progressive die for use in manufacturing a specified piecepart of predetermined material, said method characterized by the steps of generating co-ordinate signals representative of the location and dimensions of features which characterize said piecepart, storing said co-ordinate signals, and sorting the stored signals into groups where in each group corresponds to operations to be performed by the die at a common stage of the die, producing in response to said sorted signals, a physical representation of said progressive die.

134340. Joseph Lucas (Industires) Limited. Dynamo electric machines. (January 22, 1971). Including a headed bolt forming an input terminal on the casing connected to a brush assembly, insulating means spacing the bolt from the casing and an insulating sleeve bearing against the casing and hold in contact by a locking washer engaging the bolt.

134341. Void.

134342. Otis Elevator Company. Apparatus for use in conveyor car control systems. Characterised in that certain of the circuit terminals of the printed circuit boards on the apparatus have the capacity to the connected to auxiliary switching circuits thereby to enable the same controlling circuitry to control of different systems in different ways.

134343. Elkem-Spigerverket A/S Arrangement of venturi gas scrubbers. Comprising a venturi tube having three or more circumferrentially-spaced nozzles for the supply of the washing liquid.

134344. Luis Sentis Anfruns. Method of joining a toe piece having digital covers to the foot piece of a sock, stocking or the like. Characterised in that the joining by means of a looper of the stitches of a toe piece is carried out by means of circular seam.

134345. Void.

134346. Void.

134347. Void.

134348. Void.

JANUARY 22

134349. Void.

134350. Westinghouse Electric Corporation. A fan suitable for use under high-temperature conditions. Comprising bearing means, a drive shaft journalled in said bearing means, a drive shaft journalled in said bearing means said drive shaft having an axial hollow extending there through and adapted to communicate with a supply of cooling fluid, a fan rotor mounted on said drive shaft, and centrifugal pump means disposed on, and rotatable with, the drive shaft for pumping cooling fluid from said supply through the axial hollow of the shaft said axial hollow being closed toward the fan rotor, and said centrifugal pump means comprising at least one tubular member which communicates with said axail hollow, and which extends radially through and from said drive shaft, at a location between the bearing means and the fan rotor.

134351. Dr. Tarapada Mukherjee. Rotary device for hauling and hoisting using cable or wire rope. Including a power pulley and clamping jaws and wherein the pulley and the jaws of the endless chain clamping the ropes are provided with semi-circular sectional grooves.

134352. F. L. Smidth & Co. A/S. Apparatus for heatitng or cooling granular or powdered materials. [Divided out of No. 128276; ante-dated to September 2, 1970]. [Addition to No. 128276]. Having a single continuous rib of constant pitch extending throughout the whole height of the shaft.

134353. Apaw S. A. Automatic ice-cream machine. Including a mounting for a ice cream can wall scraping halicol blade shaft comprising a bearing sealed in a housing in a mounting member and movable direction and resilient means between the housing and the outer periphery of the bearing.

134354. Joseph Lucas (Industries) Limited. Dynamo electric machines. (January 22, 1971). Wherein either one end of the rotor shaft as the bore in a synthetic resin body of the commutator into which said shaft extends being of circular cross-section while the other part is of polygonal crosssection.

134355. Shell Internationale Research Maatschappij. N. V. A method of activating supported silver catalysts. [Addition to No. 133297]. Comprises (a) heating the catalyst (b) contacting this catalyst with an anhydrous alkanol or mixture of alkanols and (c) recovering it.

134356. Joseph Lucas (Industries) Limited. Battery charging systems for road vehicles. (January 26, 1971). Comprising rectifier means associated with an alternator producing output between a first and second output line and earth line and a first and second resistance chain having resistances and transistors connected between the output lines and the earth respectively.

134357. Grupul Industrial de Petrochimie Borzesti. Process and plant for the purification by rectifying of raw vinly chloride. Process comprising the stages of degasing rectifying and absorption. The plant comprises one or several condensers separator a degasing column, rectifying column, compressor, absorption column and two desorption towers.

134358. Institut Organicheskogo Sinteza Akademii Nauk Latviisokoi SSR. Method of producing α-methyl-1-adamantylmethylamine hydrochloride. 20 ml of diethylene glycol, 2 g. of 1-adamantylmethyl ketone and 3.15 g. of ammonium formate was refluxed.

134359. Belokalitvensky Metallurgichesky Zavod. Mould for producing metal ingots. Comprising a casing with cavities for ingots, base plates closing the ingots cavities, shields fastened on casing sides facing the ingot and provided with a gap through which cooling medium is fet into the ingot.

134360. Sayaji Iron and Engineering Co. Pvt. Ltd. Continuous type hot mix plants. Comprises a main rotatable drum having heating zone for aggregates and a mixing zone intermediate drum located within the main drum heating means and means for discharging the heated aggregates.

134361. Void.

134362. Baldev Krishan Sehgal. The lock type glass hypodermic syringe. Comprising a glass barrel with flange glass tip having two circular rims to form a circular groove with threaded ring with long collar having washer and a lock.

JANUARY 24

134363. Joseph Lucas (Industries) Limited. Battery charging systems for road vehicles. (January 26, 1971). Including an alternator and resistor, a voltage sensing lead having one end connected to live battery terminal and the other to earth through a diode and resistance chain such that if the voltage between the live and earth rises above a predetermined value, the diode is reverse biased.

134364. Void.

134365. Joseph Lucas (Industries) Limited. Gear selection mechanisms for vehicles. (February 15, 1971). Comprising link member coupled at one end to gear selector lever other end to gear box and includes first and second parts capable of movements relative to one another and locking devices to operate said parts.

134366. Void.

134367. Void.

134368. Tractel Tirfor India Private Limited. Apparatus comprising tandem traction clamps adapted to perform simultaneous alternative and reverse movements and to act upon a cable or bar extending through the apparatus. Cam surfaces of the clamping links of each clamp are disposed, in one clamp on the one hand and in the other clamp on the other hand symmetrically in reference to a transverse plane perpendicular to the cable or bar axis.

134369. Swiss Aluminium Ltd. Cleaning exhaust air from workshops. Comprising a housing having an air entry at its bottom a lower enclosing wall unpermeable to air, an upper enclosing wall permeable to air, a stator consisting of a ring of blades arranged to direct air flow through outlet openings of the stator, a fan upstream of the stator, means for supplying water to wet the upper enclosing wall.

134370. N. V. Philips' Gloeilampenfabrieken. Method of manufacturing a semiconductor device having a semiconductor capacitance diode and device manufactured by using the method. Characterised in that at least a first layer of the first conductivity type is provided on the substrate which layer has a higher residivity than the substrate that the step-like dopint profile resulting from the provided layers in rounded off by a heat treatment by thermol diffusion and that prior to providing the *p—n* junction in the last provided layer, at least one diffusion of a doping element determining the first conductivity type takes place as a result of which the conductivity of the layer provided last is further increased.

134371. Egon Scheubeck. Stepping switch for regulating transformers. In which a load selector is adapted to be fitted in a stationary, cylindrical oil vessel closed against the transformer vessel, and carried by a housing part containing a drive, and wherein a preselector is provided for connecting or counterconnecting the step winding, wherein the preselector is formed from known contact members mounted outside on the cylindrical oil vessel, and mating contact members mounted on an outer rotatable cylinder, where in the rotatable cylinder is suspended by means of a flange, having a rim, into the housing containing the drive, and a coupling element is provided between the flange and the drive and is also arranged outside a circular cross-section necessary for fitting the load selector.

134372. Void.

134373. Sharvari Nath and Rameshwar Prasad Singl Process for improving the colour of plantation white su in vacuum pan sugar factories and khandsari sugar in op pan sugar industry. Treating with a mixture consisting phosphoric acid and ultramarine blue.

134374. Council of Scientific and Industrial Research. provements in or relating to the electrolytic reduction p-nitrophenol to p-aminophenol. A process for the ma facture of p-aminophenol which comprises in electrolytica reducing a suspension of p-nitrophenol to p-aminophenol a supporting electrolytic of mineral acid using electrode copper.

134375. Council of Scientific and Industrial Research. process for the preparation of insoluble anodes for elect chemical processes. Consists in using corrosion resist valve metals as substrate and coating the surface of the s strate by thermally depositing platinum.

134376. Void.

134377. Council of Scientific and Industrial Resear Improvement in or relating to the preparation of pellets c taining carbonate ores and carboneceous materials. Prepar a fluid of raw uncalcined magnesite and raw uncalcined pet leum coke in admixture with hydroxide and or oxide of m nesium, sodium silicate and chloride and/or sulphate magnesium solutions.

134378. Council of Scientific and Industrial Resear Tungesten sulphide-nickel sulphide on alumina catalyst production of superior grade kerosene from L. T. tar a petroleum fractions. The alumina on being calcined ground to 40—44 microns, depositing ammonium sulp tungstate and nickel nitrate and the resulting catalyst ground, pelleted with binder, dried, calcined and activated passing H_2 and H_2S mixture.

134379. Void.

JANUARY 25

134380. Westinghouse Electric Corporation. Reverse osr sis module. Comprising a porous matrix having a se permeable osmotic membrance supported thereon and posed in a container, means for supplying pressuried fluid one side of said membrane, being characterised in s matrix is surrounded by a flexible envelope.

134381. Agrophysics, Inc. Device for insertion into reproductive tract of animals or human beings. Compris mounting means with yieldable means.

134382. Colgate-Palmolive Company. Dentrifice comp tions. Comprising 0.5 to 40 per cent by weight of formu tion of zirconium silicate and 20 to 60 per cent by wei of mormulation of a thermoplastic resin.

134383. Colgate-Palmolive Company. Cleaner comp tion containing colored particles. A cleanser consisting es tially of an abrasive, a water soluble organic detergent, hypohalide bleaching agent and coloured solid particles c sisting essentially of water soluble coloured particles, a w dispersible pigment and a colorant extender.

134384. Joseph Lucas (Industries) Limited. A met of manufacturing a ferrite magnet. (January 26, 19 Comprising the step of mixing the ferrite magnet mat with a fibrous material before pressing the same in a magn field.

134385. SCM Corporation. Typewriter ribbon cartridge guide support. Comprises guide means having a pair of spaced flanges and a wall between said flanges means for locking cartridges within said guide means.

134386. SCM Corporation. Typewriter ribbon cartridge. The opposed surfaces on the housing for, cooperation with the spaced guides to permit lateral insertion of the cartridge arm for automatically engaging the lift mechanism of the ribbon when the cartridge is inserted into the support.

134387. Polysius AG. A device for pneumatically conveying loose material. Container is provided with at least two material exit pipes terminating above compressed air nozzles, each pipe having a corresponding funnel zone in the base the nozzles belonging to these funnel zone being connected via conduits to a common compressed air source.

134388. Gould Inc. A casting mould for forming objects of desired shapes. A casting mold from a molten fluid having mating sections defining an internal cavity conforming to the object shape and a gate area to receive and channel the molten fluid to the internal cavity.

134389. Void.

134390. Void.

134391. Snam Progetti S.p.A. Process for the oxidation of olefins. Reacting an olefin with oxygen or a gaseous mixture containing oxygen at elevated temperature in presence of a catalyst comprising oxygen containing compounds of uranium, tellurium and molybdenum and which contains for each atom of uranium from 1 to 8 atom of tellurium and 0.1—1 atom of molybdenum.

134392. Maschinenfabrik Augsburg-Nurnberg Aktiengesellschaft. An air-compressing self-igniting fuel-injection engine. Fuel film penetrates at least 65% of the depth of combustion chamber in such a way that its meeting point being less than 90° behind the injector and this fuel film is then led on to a discending step disposed at a distance of 90°—140° behind the injecting nozzle in the combustion chamber surface.

134393. Laporte Industries Limited. Improvements in beneficiation of ores. (January 27, 1971), A mixture of the roe and carbon is treated in a fluidised bed reactor with treatment gas comprising chlorine, oxygen, nitrogen and inert gases.

134394. Void.

134395. Tata Engineering & Locomotive Company Limited. A Seat for use in vehicles, for example commercial vehicles. [Addition to No. 132026]. Wherein spring means comprise rubber spring mounted between basal part and or between links and movable frame and one shock-absorber mounted between fixed frame and mobable, frame.

134396. J.P. Stevens & Co. Inc. Multiple spindle ring rail bearing frame. Which comprises in combination a flat bar on top of the ring rail the flat bar having a series of scallops with intervening projections, means for moving the bar longitudinally and means for bearing down the ring rail means for tilting the thread guide and resulting switch.

JANUARY 28

134397. Void.

134398. Council of Scientific and Industrial Research. Improvements in or relating to the production of paper board suitable for making low cost paper houses. [Divided out of No. 126392: ante-dated to 27 the April, 1970]. Beating the pulp to freeness in presence of soldium silicate, forming the board, surface treating the bound with glue and formalin, the sodium silicate being used in combination with wax emulsion.

134399. Livinder Singh. Contact means for a mobile lighting device. Consists of a unitary compartment accommodating a pair of conductors housed in an insulated grooved casing, the conductors being placed apart, the compartment having a groove of the top longitudinally wherein is adapted a contact device in sliding fit inside the groove of the casing.

134400. Prem Kishan Bajaj. Connecting members for building show cases and the like and method of constructing show cases and the like from said members. Comprises a pair of parallel walls connected together by two webs extending at right angle to said walls, the space between the walls being adapted for receiving part of a panel.

134401. Nandlal Girdharilal Vihani. Improvements in or relating to key sacs. Comprises an open ended pouch having two flat walls integrally connected together by two side walls and an end wall, means for supporting a key chain and means for supporting the key chain supporting means.

134402. Development Consultants Private Limited. Improvements in or relating to manually operated valves. Comprising a frame, a valve body having an opening, a slide plate housed in the valve body and an operating means mounted on the said frame.

134403. Void.

134404. Void.

134405. Void.

134406. Madhav Vasudeo Kunte. A device for synchronising the projection of a picture with the reproduction of the sound from the sound-track of the film. Comprising means for running the picture-film between a source light and a screen, the light path is interposed by a rotatably, held prism, a projecting lens unit, a set a reflecting surface, two identical spools mounted on a common shaft, both the flanges of each spool having identical number of teeth which is adapted to receive the holes of a common movie film.

134407. Void.

134408. Void.

134409. Alcan Research and Development Limited. Direct chill casting of ingots. Wherein coolant is applied to the external surface of an ingot as it emerges from an open ended mould, first zone extending from bottom of the mould to a level adjacent to the bottom of the pool of molten meal.

134410. Huck Manufacturing Company. Tool and method for torquing and crimping. Comprising a plurality of jaw members, housing means supporting said jaw members for relating axial movement and causing said jaw members to move radially for crimping upon such axial movement.

134411. Sankyo Company Limited. Process for preparing acid esters of 4-piperidinol derivatives. Reacting a 4-piperidinol derivative with lower alkylester of an acid in presence of alcoholysis catalyst.

134412. Void.

134413. Sama Naidu Palaniswamy. Improvements in or relating to pumping unit for fluids. Adapted to float on a fluid comprises a prima-mover pump and a float; the prima mover is on the topside of the float and the pump being on the bottom side.

134414. J.&P. Coats Limited. Method of producing dyed material. (January 29, 1971). Applying to virgin material a dyeing medium, draining the material and treating with acetone 50—100 and a diluent 50% to 0%.

JANUARY 29

134415. Council of Scientific and Industrial Research. A process for production of high purity water by solar stills. A process for the production of high purity water by heating saline water by solar energy in solar stills comprising a basin in which the saline water is kept and the glass sheets as covers for the basin and condensing the vapors on the underside of the glass covers characterised in that the heating is done is solar stills wherein the glass sheets are fixed at angles 10° to 60° with horizontal axis at lower edge of the glass sheets as the cover.

134416. Willi Burth. Unwinding and winding apparatus for cinematographic film and the like band material. Comprises a support, at least two rotatable discs mounted horizontally on said support respectively adapted freely to support the supply coil and the take-up coil, a driving motor for rotating each of said discs, first film guiding means stationarily mounted in a cut-out or recess in the centre of the disc carrying the supply coil and further film guiding means for guiding the film to the take-up coil.

134417. J. & P. Coats Limited. Process for production of filamentary structures. (January 29, 1971). A process of making bonded filamentary structures consisting in placing together at least two strands of a chosen filamentary structure-forming material and at least one bonding strand of a thermoplastics material chosen such that at its softening temperature the strength of the structure-forming material is substantially unimpared then raising the temperature of at least selected parts of the structure thus formed to a level sufficient to cause the bonding strand to lose its identity as a strand at the parts where the temperature is raised and become at these parts purely a mass of material bonding the strands of structure-forming material together.

134418. Polysar Limited. Process for vulcanising brominated butyl rubber. (February 11, 1971). Comprises using elemental sulphur as the sole vulcanization agent.

134419. Brown, Boveri & Company Limited. A roof lifting and swivelling device for tiltable crucible melting or holding furnaces. Roof being activated about a swivel arm by means of a hydraulic cylinder attached to furnace, characterised by having on the upper and of the hydraulic cylinder, a cylindrical casing in a movable manner.

134420. Hercules Incorporated. Under water gun for marine seismic exploration. Characterised by an accelerating element of the gun mounted ahead of the firing head and forms a tubular channel.

134421. Void.

134422. L' air liquide societe anynyme Poun L'tende Et L'exploitation Des Procedes gearges claude. Method and installation for the compression of a fluid by the expansion of another fluid. Comprises a fractionated separation zone, fractionated mixture zone, trays, conduits coupling the two zones, compression and expansion means.

134423. Void.

134424. Farbwerke Hoechst Aktiengesellschaft vormals Meister Lucius & Bruning. Process for the preparation of novel daylight fluorescent pigments. Comprises preparing a mixture of an organic fluorescent dyestuff and a condensation resin followed by curing the mixture by heating.

134425. Farbwerke Hoechst Aktiengesellschaft vormals Meister Lucius & Bruning. Process for the preparation of novel daylight fluorescent pigments. Comprises incorporating fluorescent dyestuff in a mixture of copolymer containing epoxy groups and the di—or polycarboxylic acids of the anhydrides thereof and curing the mixture by heating.

JANUARY 31

134426. Void.

134427. Void.

134428. Void.

134429. Hamilton Kent Manufacturing Co. Resilient conduit seal. Comprises a base portion radiating outwardly from said base portion a plurality of ears, an opening through each ear to add resilience to the conduit seal when under compression.

134430. Stamicarbon N. V. Process for the preparation of urea. Reacting carbon dioxide and excess of ammonia in urea synthesis zone at elevated temperature and pressure and subjecting urea synthesis solution to at least two treatment stages, each stage comprising a reduction in pressure.

134431. The Rubber Research Institute of Malaya. Improvements in or relating to the stabilisation of natural rubber. (January 31, 1971). Mixing natural rubber in the solid state with a derivative of ammonia.

134432. Void.

134433. Void.

134434. Void.

134435. Void.

134436. Harbans Lal Malhotra & Sons Pvt., Ltd. Razor Blades. A razor blade made of carbon steel or hardenable stainless steel having thin coating of tungsten-molybdenum alloy at or adjacent its cutting edges thereof.

134437. Harbans Lal Malhotra & Sons Pvt., Ltd. Razor blades. A blade made of carbon steel or hardenable stainless steel having a thin coating of chromium alloy or chromium nickel alloy on the coating edges thereof.

134438. Void.

134439. Lucas-TVS Limited. A transistorised voltage regulator for train lighting dynamos. Comprising a first transistorised switching circuit a second transistorised switching circuit, the circuits incorporating zener-diode and resistor network, the zener-diodes being adapted to become conductible when the voltage at the dynamo terminals exceeds predetermined valves and a push button switch adapted when operated to divert the supply of current from d.c. source.

134440. Apaw S. A. Liquid-and-air mixing gear pump. Comprising a liquid intake port upstream of the region in which the pump gears are in mesh, a liquid-and-air emulsion delivery port downstream of the region in which the pump gears are in mesh.

134441. Apaw S. A. Improvements in continuous machines for the production of whipped cream. Comprising a container for liquid cream, a homogenizer. a dispensing device connected with the outlet end of the homogenizer. and means for feeding a mixture of liquid cream and air through a labyrinth formed in the homogenizer.

134442. Apaw S. A. Ice-Cream blending and dispensing apparatus. Comprises a blending and dispensing cylinder located between two dispensing cylinders, pistons slidable in each cylinder, a pair of packing rings associated with each piston, said packing rings spaced apart axially and located in grooves in the pistons.

134443. Void.

134444. Polysar Limited (formerly known as Polymer Corporation Limited). Vulcanization of elastomers. (February 11, 1971). Mixing an essentially saturated elastomer having reactive halogen atoms with a hydroxide of a metal of group IA or IIA of the Periodic Table and Sulfur or a Sulfur-releasing substance and heating the mixture.

134445. Hindustan Lever Limited. Toothpastes. (February 5, 1971). · Comprising an abrasive cleaning agent, a liquid phase comprising a mixture of water and a humectant, and a binder containing xanthum gum.

FEBRUARY 1

134446. Void.

134447. Void.

134448. Void.

134449. Superior Continental Corporation. Telephone cable with improved cross-talk properties. Comprising a tubular covering a tubular metallic shield forming a part of said covering, a core made up of a plurality of electrically insulated conductors, and integral metallic crosstalk shield disposed within said core-receiving cavity and extending between circumferentially spaced apart regions.

134450. Dunlop Limited. Treatment of cellular material. (February 2, 1971). Cellular plastics material to perforate or remove cell membranes thereof, in which one or more surface of said material is subjected to short-blasting using a particulate solid abrasive.

134451. Societe Nationale Des Petroles D' Aquitaine Tour Aquitaine. Apparatus for seismic exploration. Characterized by each of the emission source is operated in continuous manner so that two consecutive waves of said emission source being separated by a time interval at least equal to the outward and return travel time of the longest wave propagated in the medium to be explored whereas the time intervals separating two consecutive wave emissions each produced by one of the said emission sources are less than said travel time of the waves propagated in the medium.

134452. USS Engineers and Consultants, Inc. Method of producting thin flat rolled steel products having substantial aging-resistance. Comprises forming a steel melt consisting of 0.01—0.08 per cent carbon, 0.20—0.60 per cent manganese, 0.03—0.08 per cent silicon, 0.004—0.015 per cent aluminium with a balance of iron, adding 0.01 per cent boron casting and forming the steel into a slab reheating and hot rolling the slab thereafter coiling at a temperature above 1100°F and finally pickling, cold rolling and annealing.

134453. Franz-Plasser Bahnbaumaschinen-Industrie-Gesellschaft m.b.H. Improvements relating to apparatus for controlling the lateral adjustment of tool units. The tool units are mounted for lateral displacement and/or lateral pivoting on the chasis of the machine.

134454. Alex Lawrie & Company Limited. Processing of green tea leaf. [Addition to No. 119317]. Tea leaves are allowed to travel in a helical path by an induced air steam by a bladed rotor in a cylindrical casing.

134455. General Electric Company. Induction motor speed control. Includes means for producting a reference signal and a feedback signal, means responsive to said signals for producing an output signal, means for developing a central signal, and for producing a limit signal with respect to slip, means for producing a periodic waveform, and means for applying said period wave-form motor.

134456. Philipp Mutschler. A disposable fountain pen. Characterised in that a seal is provided by a peripheral head on the assembly pressing tightly against the surrounding barrel at the nib end of the ink reservoir.

134457. Federal-Mogul Corporation. Clutch release bearing. Comprises a first annular race member having a first raceway, a second annular race member having a second raceway, a plurality of anti-friction gearing elements between first and second raceways, first raceway and second raceway being semi-circular having radius between 52.1 to 52.9 per cent and 53.1 to 53.9 per cent of the diameter of said bearing elements.

134458. Ckd Praha, Oborovy Podnik. Improvements in or relating to inverter circuits. Characterised in that the thyristors connected to a first of the two terminals of direct current are quenched by common quenching circuit, a first output terminal is connected to first terminal of direct current, the said thyristor is further connected with its electrodes of opposite polarity to a second out put terminal of the quenching circuit and the quenching circuit comprises a parallel combination of a commutating capacitor and a quenching thyristor connected in series with a overswing inductance.

134459. Void.

134460. Void.

134461. Snia Visoosa Societa Nazionale Industria applicazioni viscosa. Improvements realting to apparatuses for continuously cooling dry particulate materials. [Addition to No. 118591]. Characterized by means positioned directly behind the inlet orifice for taking the kinetic energy off from the pneumatically conveyed inflowing granules.

134462. N. V. Organon. Process for the withdrawal and separation of a substance from a liquid. Characterized in that the process is carried out by adding to the liquid to be withdrawn and separated a known amount of its binding partner which has been or is insolubilized, separating the solid phase from liquid phase, adding to the solid phase a known amount of a coupled product.

134463. Nestle's Products Limited. Method of manufacture of an acidified milk product in powder form. Combinant a portion of a milk product in powder form biologically acidified in a pH 4.2 to 4.4 with non-acidified milk product in order to obtain a pH above 5.2 immediately after reconstitution with water and an acid compound with controlled release is combined with the two said fractions.

134464. Nestle's Products Limited. Method of manufacture of an acid compound with controlled release. Coating an acid such as citric, lactic or acid fruit concentrate in solid form or mixed with solid carrier with an edible fat solid and containing an emulsifier.

134465. N. V. Philips Gloeilampenfabrieken. Semiconductor device. Comprising a cooling element secured opposite to a crystal to the conduction supporting the crystal characterised in that the element comprises slots for passing an envelope of a synthetic material in which integrated circuits are incorporated.

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134466. Shiv Kumar Rathore. Improvements relating to swivelling window shutters. Each window shutter is rotatably mounted on its axis by means of two shafts fitted on either side of the window shutter and supported on two supporting members arranged on either side of said window shutter.

134467. N. V. Organon. Process for the manufacture of 11β -halo-steroids of the oestrane series. Comprises reacting $\triangle^{4}$—11α hydroxy-17-keto-oestrene with N, N. diethyltrichlorovinylamine to produce $\triangle^{4}$—11β chloro-17-keto-oestrene.

134468. Kamyr Aktiebolag. Strainer device in vessels for treating cellulosic pulp. Providing in a standing cylindrical vessel a liquid outlet moveable between two strainer bodies, in a position close to an impervious cylinderical screen regidly connected to the strainer bodies.

134469. Void.

134470. Pfizer Inc. Preparation of trisubstituted pyridine derivatives. (November 4, 1971). A process of preparing 2-hydroxymethyl-3-hydroxy-6-(1-hydroxy-2-aminoethyl - pyridine characterised by catalytically reducing a corresponding 2-hydroxymethyl-3-benzyloxy pyridine compound with palladium or palladium on charcoal as catalyst in the presence of hydrogen.

134471. Imperial Chemical Industries Ltd. Process for the preparation of a dispersion of particles of synthetic polymer. (February 8, 1971). Preparation of a dispersion of particle of synthetic polymer in an inert liquid.

134472. Void.

134473. Siemens Aktiengesellschaft. Improvements in or relating to digital information transmission systems. (October 4, 1971). Characterised in that a device is provided which represents the mean of individual pulse trains and adds both to this and to the individual stuffing train frequencies a fixed frequency which is greater than the maximum possible stuffing train frequency, also provided a number of controlled auxiliary oscillators, corresponding to the number of asynchronous pulse trains.

134474. Siemens Aktiengesellschaft. Improvements in or relating to electro-mechanical filters and apparatus and method of trimming same (September 17, 1971). Wherein a predetermined transmission characteristic is obtained by modification of individual element of filter whilst the filter in excited to perform mechanical oscillations by electromechanical transducers, monitoring means to sence the resultant oscillations, computer means for comparison of the theoretical and actual values of the monitored signals and to control a trimming device for adjustment of an individual filter element.

134475. Norton Company. Production of fused abrasives. Wherein the matter abrasive is cast onto a packed mass of a plurality of discrete bodies of material, said masses having an average spheroidal body of from 2″ to 1/2″.

134476. Johnson & Johnson. Adhesive cement composition for use in bonding or filling solid surfaces. Comprising a combination package having components (i) appropriate polymerizable monomeric ester of α -cyanoacrylic acid and (ii) a second component comprising finely devided in active inorganic filler material if necessary pretreated with a trialkoxy silyl compound and basic amine activator.

134477. Soundfold, Inc. Support structure for cloth-like material. Comprises a generally flat strip having at least two protuberances, attachment portions having aperture for attaching said strip to a support surface.

134478. Phoenix Distributors Private Ltd. A receptacle for drinking water or the like for horses, cows or other animals and cattle. Characterised in that it is provided with a valve which is fitted into a projection lying in a horizontal plane and interval to the walls of the said receptacle or vessel, the said valve having at its upper and having means to connect the said valve to the feed pipe, the said valve having means which are adapted to close the passage for the flow of liquid through the valve, at the end of the said horizontal projection being swivellably pivoted one end of a flap such that the body of the said flap stands freely suspended from the said piyoted end, the said flap on its rear side being provided with an attachment which just touches the bottom of the valve stem such that when the said flap is depressed, the said attachment pulshes the valve stem upwards.

134479. Void.

134480. Void.

134481. Void.

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134482. Council of Scientific and Industrial Research. Viscopump-bearing-seal, a device for supporting axial and radial loads and for dynamic sealing. Comprising rotating member in the form of cylinder of portion is tapered on both sides and grooves are cut out them, a stationary member having a matching groove to accepted the tapered portion and the space having filled up by lubricating fluid.

134483. Void.

134484. Francis Baatty Fishburne. Vertical press apparatus with remotely controlled distributor. Comprising containers, floor level support, charger, conveyor means, distributor, pressing head, press means, adjustible timing means located at floor level.

134485. Void.

134486. Bose Corporation. Loudspeaker system. Fluid tight enclosure with parallel back and front panels, high compliance woofer means secured to said front panel for rediating energy directly into a listening area, a source for radiating energy having rearward components and oppositely directed sidewar components, a pair of input terminals, means for connecting said woofer means to said input terminals, and frequency sensitive passive attenuating means for coupling said source to said input terminals for transmitting signals from said input terminals to said source only above a predetermined low frequency.

134487. Void.

134488. Void.

134489. Friedrich Uhde GMBH. Electrolysis cell with liquid elecrode. Comprising a cell button anode up of two layers, are being a carrier material of aluminium alloy and the other being thin and of electrical contact material having a thickness of less than 1 mm.

134490. Snam Progetti S.p.A. Process for the polymerization of an olefine at high pressure in tubular reactors. Comprising polymerizing olefin and expanding reaction product.

134491. International Nominees (Bahamas) Limited. Process for producing a custom shoe form. Characterized by the steps of taking contour measurements of a portion of the body, deriving body model data from said contour measurement, combining said body model data with style model data to produce information signals, cutting a custom positive or negative form from a blank by utilizing said information signals.

134492. H. Vissers N. V. Agricultural Implement. Characterised in that fork driving the tool is beared in a bearing bush removably attached to a tool driving element.

134493. Void.

134494. Homi Rustomji Vakil. A method of fuse together two tubular pieces of a thermoplastic material and an apparatus to carry it out. Comprises to cyindrical metal dies of unequal diameters coated with a nonstricking composition for holding the tubular pieces, the said two dies sandwhiching between themselves an electric heater encased in a metal casing and a chamber provided with air-holes.

134495. Lucas-TVS Ltd. Improvements in or relating to voltage regulators. Comprising a potentiometric train, one zener diode, a switching mode transistor circuit and a surge capacitor.

134496. Lucas-Tvs Ltd. Improvements in or relating to voltage regulators. Comprising an electromagnetic relay and an electronic circuit consisting of potentiometric train, diode, transistor circuit an integrating and filter capacitors.

134497. Dunlop Limited. Variable stiffness mounting. (February 8, 1971). Comprises an input member and associated abutment member. two opposing spring means having limited free length and a body member wherein the spring means are mounted to the body member to act in substantially the direction of motion of the input member.

134498. Polysius AG. Travelling grate. Grate members have pocket-like recesses open towards the interior of the grate.

134499. Aspro-Nicholas Limited. Improvements in packaging of tablets. Comprising two superimposed sheets having rectangular pockets.

134500. Bayer Aktiengesellschaft, formerly known as Farbenfabriken Bayer Aktiengesellschaft. Process for the production of 4-amino-1, 2. 4-triazine-5-ones. Reacting a glyoxalic acid ester 2-acylhydrazone with a hydrazine derivative in an organic solvent.

134501. Void.

134502. Cassella Farbwerke Manikur Aktiengesellschaft. Process for the preparation of 2-(4-amino-phenyl)-6-methylbenzothiazole. A process for preparing 2-(4-aminophenyl)-6-methyl-benzothiazole which comprised reacting p-toluidine and sulfer at a temperature in excess of 280°C and at a pressure of at least 28 atmospheres absolute.

134503. Triplex Safety Glass Company Limited. Improvements in or relating to deposition of metal oxide films on substrates. (February 5, 1971), Comprising applying negative potential to cathode assembly and substrate followed by relative translational movement.

134504. Farbwerke Hoechst Aktiengesellschaft Vormals Meister Lucius & Bruning. Process for optical brightening of organic materials. Comprises treating filaments of texturated polyamide 6 wells 2-(p-cyanostyryl)-benzofurane.

FEBRUARY 5

134505. Void.

134506. Void.

134507. I.W.S. Nominee Company Limited. A Process for improving flame-resist properties of natural or synthetic polyamide fibres and fibres so obtained and fabrics made therefrom. Comprising depositing in the fibres from an aqueous solution at a pH below 4, complex compound of titanium with an organic chelating agent or fluoride ions.

134508. Kannegiesser Maschinenfabrik Gesellschaft Mit Beschrankter Haftung. A method and apparatus for printing textile webs and pieces. (February 5, 1971). Comprises arranging the textile material between a rotating supporting surfaces which is permeable to air and a printing sheet bearing a coating of dye on the face thereof, applying a vacuum to the face of said permeable surface and heating the textile material by sublimation of said dye.

134509. Girling Limited. Adaptor assemblies for connecting complementary members. (February 5, 1971). Comprises a pair of complementary member on having recess adaptor comprising a bush, a tubular member for fluidflow member receiving through bore bush and enlarged head at one end of tubular members.

134510. Girling Limited. Adapter assemblies for connecting complementary members. (March 4, 1971). [Addition to No. 134509]. Comprising features as stated in the specification No. 134506 wherein the said head is provided with an apertured axial extention for engagement with the base.

134511. Girling Limited. Adapter assemblies for connecting complementary members. (July 10, 1971) [Addition to No. 134509]. Comprises the features as specified in specification No. 134509 wherein through bore is counterbored at the said one end of the bush and the enlarged head is located within counterbore.

134512. Joseph Lucas (Industries) Limited. Control apparatus for an internal combustion engine fuel injection system. Comprises an edge cam pivotal about an axis a cam follow a plunger engageable at one end thereof with the can follower and co-acting with control stop, latch means pivotally mounted on said cam, abutment means and damping means operable to oppose movement of said latch means.

134513. Jayendra Jagmohan Shah. A method and a device for making pile fabric. Comprises inserting a pile yarn from one side of the backing to other side thereof cutting the yarn on said one side, feeding the yarn and inserting both cut ends of the yarn through said backing to form pile fabric.

FEBRUARY 7

134514. Void.

134515. Esso Research and Engineering Company. Solvent dewaxing-deoiling process. The oil is dewaxed in the presence of a nonvolatile solvent.

134516. Void.

134517. Imperial Chemical Industries Limited. Process for the preparation of aluminium phosphate. [Divided out of No. 126945; ante-dated to 4-6-1970].. Comprises decomposing by heating a halogen-containing complex phosphate of aluminium containing at least one chemically found molecule of a hydroxy compound R-OH wherein R is hydrogen atom or an organic group.

134518. Burmah Oil Trading Limited. Improvements in or relating to hydraulic fluids. Comprising di-(monoethyl ether or diethylene glycol) nylonate, triethylene glycol dipropionate ester, tris-(monomethyl ether of triethylene glycol) borate, and diamylamine.

134519. Void.

134520. Hindustan Lever Limited. Antiperspirant composition. (February 10, 1971). Comprising a diaperaionnely divided anteperapirant agent in a solution of a Cl-C$_4$alkyl ether of a sample or condenses C$_2$-C$_4$ alkylene glycol in an aerosol propellant.

134521. Void.

134522. Uzina De Produse Sodica. Process for the manutacure of dense sodium carbonate. Process for the production of a high density (heavy) sodium carbonate characterised in that sodium carbonate subjected to drying upto a 2 to 4% water content, briquetting the dried sodium carbonate at a pressure of 800 kg./cm^2 to 1000 kfg/cm^2 and heating the resulting product in a closed space to a temperature of 700-750°C in a gaseous atmosphere formed by $CO_2+NH_3+H_2O$ vapours.

134523. Aikoh Co. Ltd. Slag-forming agent for the steelmaking. Comprising 2 to 20% by weight of metallic titanum having a size of 0.5 to 20 mm. more than 30% by weight of aluminium oxide and a binder.

134524. E. I. Du Pont de Nemours and Company. Solventr free process for preparing 3-(halophenyl)-1, 1-dialkyl ureas. Improvement comprises adding the dimethylamine and 3, 4-dichlorophenyl isocyanate to the reactor vessel concurrently while agitating with the amine while maintaining the temperature of the reactants at a temperature in excess of the melting point of the substituted urea that is formula.

134525. Standard Telephones and Cables Limited. Cables. (March 3, 1971). Insulating material for an insulated pair of electrical conductors has substantially B-shaped transverse section each to be of the B forming a sealed tube around its associated conductor, and therein the separate lobes are interconnected by a web.

FEBRUARY 8

134526. Amitava Ghosh Dastidar. Joining Diaphragm walls. [Divided out of No. 131024; ante-dated to April, 19, 1971]. Comprising opposing male and female locking units each of which comprises C-sectioned tubular member on the connecting edges of walls of panels.

134527. Amitava Ghosh Dastidar. Cutting tool-shovel. [Divided out of No. 131024; ante-dated to April 19, 1971]. Comprising a shovel member of desired width having side walls set back from its cutting and/or collecting edge.

134528. Amitava Ghosh Dastidar. Cutting tool-grab scissors. [Divided out of No. 131024; ante-dated to April 19, 1971]. Comprising a plier like means with a channel member mounted or integrally formed on each limb.

134529. Void.

134530. Void.

134531. Melle-Bezons. Improvements to high boiling ester purification. Esterifying in presence of sulfuric acid, neutralising reacting product, heating to 130°-190°C neutralized mixture, decanting to separate therefrom oragnic phase and aqueous phase at 120°-200°C under pressure.

134532. La Telemechanique Electrique. Pneumatic timer. Air intake filter is housed directly in the open part of said regulator the bottom of which is resting directly on the timing device the throttling channel of which communicates with the bellows by means of an opening in a partition which is integral with the box.

135433. Imperial Chemical Industries Limited. Process for the preparation of fibres. [Divided out of No. 136945; ante-dated to June 4, 1970]. Comprising fiberising a composition compressing solution in water or an organic solvent of a halogen-containing complex of aluminium containing at least one chemically-bound molecule of a hydroxy compound R-OH and drying the fibre so formed.

134534. Imperial Chemical Industries Limited. Process for binding solids. [Divided out of No. 126945; ante-dated to June 4, 1970]. Comprising mixing solids with a composition comprising a solution in water or an organic solvent of a halogen-containing complex phosphate of aluminium containing at least one chemically-bound molecule of a hydroxy compound R-OH, the number of gram atoms of aluminium to the number of gram atoms of phosphrus in the complex phosphate being 1:1 and removing the solvent.

134535. Void.

134536. Stamicarbon N. V. Processing plant for processing at elevated temperature solutions containing ammonium carbonate. Characterized in that the surfaces which are in contact with ammonium carbamate solution are fabricated from a nickl-free ferritic steel containing at least 25 percent by weight of chromium, 0 to 30 per cent by weight of molybdenum and C+N of not more than 0.035 per cent, balance iron.

134537. The National Products. Supari Chewing gum. Incorporating pulverised 'supari' in chewing gum with flavouring agents, 'Supari' content being more than the chewing gum content.

134538. Nestle's Products Limited. An extrusion nozzle and an extrusion device comprising the same. Comprises an elongate body having a sidewall, the side wall having longitudinal slats defining at least two fins the free ends of which are turned inwardly towards the longitudinal axis of the passage.

134539. Veb Polygraph Leipzig kombinat-Fur Polygraphische Maschinen und Ausrusteen-Gen. Method and apparatus for thread-sealing together two sheet portions. (May 14, 1971). Comprising the steps of feeding the sheet portions continuous by along a path, applying a thread price to one external surface of the two sheet portions when superposed.

134540. Veb Polygraph Leipzij, Kombinat-Fur Polygraphische Maschinen und Ausrus-tungen. A method of an apparatus for stitching at least two superposed sheet portions. (May 14. 1971). Comprising the combination of the steps of releasing a thread from a thread supply for transporting the thread into contact with superposed sheet portions.

134541. Veb Polygraph Laipzig, Kombinat Fur Polygraphische Meschinen und Ausrustungen. Stitching apparatus (May 14, 1971). Comprising means for movably supporting such a sheet at a position where stitching is to take place.

134542. Veb Polygraph Laipzig, Kombinat Fur Polygraphische Maschinen und Ausrus-tungen. Method and apparatus for producing bolded and thread sealed sheet products. (May 14, 1971). Comprising the steps of folding the sheet in a folder thread-sealing the folded sheet by means of a thread sealing device.

134543. Marine Systems. Inc. Fluid Pump. Comprising a rotatable duct section having a cylindrical interior wall and a plurality of curved internal impeller blades attached to the wall to rotate with the duct section for axial movement of fluid through the duct section.

134544. Void.

134545. Swaranjit Singh. Rail Fastener. A device for holding the rail to the railway track sleepers and more particularly to wooden sleepers comprising a vertical spike comprising two integral legs.

FEBRUARY 9

134546. Council of Scientific and Industrial Research. Improvements in/or relating to chemical refining of graphite (natural or beneficiated) having 1 per cent mineral matter. By mixing the finely ground graphite powder with sodium hydroxide and then making it to a paste, which is dried, crushed and heated at 600-700°C.

134547. Void.

134548. The Planning and Development Division. Fertilizer Corporation of India Limited. An instrument for taking X-ray diffraction photographs of powder specimen at high temperatures for measuring certain physical properties. Comprising an electrical furnace for heating the specimen upto 1000°C with vacuum metal cover, the furnace being provided with cooling means at its two sides to cut off heat radiation reaching the film mounted in a casette on the top of furnace, collimated pin hole system, a device for holding the specimen being provided on one side adjoining the cooling means and a thermocouple being provided to measure the temperature of the specimen.

134549. Howson-Algraphy Limited. Improvements in or relating to sheets for making lithographic printing plates. (February 9, 1971). Comprises a sheet of aluminium or aluminium alloy having an anodic layer formed thereon, the said layer being impregnated with a composition comprising water soluble polyvinyl alcohol and a further water soluble colloid.

134550. The General Corporation. Colour television receiver. (June 14, 1971). Comprising means for providing an offset subcarrier for use in the demodulation of the chrominance signal and means for phase demodulating the offset subcarrier with a sawtooth wave at the horizontal scanning frequency.

134551. The Firestone Tire & Rubber Company. Process for polymerization of conjugated dienes. Maintaining a monomer composition containing conjugated diene, at a temperature of not more than 200°C in presence of a catalyst consisting of an alkali metal and an alkali metal alkoxide.

134552. An dre Tradien. Improvements in or relating to the manufacture of concretes and morters. Consists in subjecting the pasty mixture to a freezing operation for storage or transporation in a solid form.

134553. Joseph Lucas (Industries) Limited. Nut and gear assemblies for use in engine starter motors. (February 10, 1971). The nut has at least one external groove or flat thereon and a plurality of portions projecting outwardly beyond the groove and that a portion of the body extends into the groove or flat whilst the projecting portions of the nut-bites into the body.

134554. Joseph Lucas (Industries) Limited. Locking arrangement for vehicle gearbox. (February 17, 1971). Includes a housing and a plurality of spaced parallel rods, a plunger slidable in bore, a plurality of members slidable in passage, and a actuating element engageable with another of the members so that, when said rods are in predetermined relating positions, said plungers and said members may be moved simultaneously to lock said rods in said relating positions.

134555. Void.

134556. Ernet Jacobi & Co. KG. Sliding current conductor for mobile cleaning apparatus for textile machinery. Comprises current carrying rails, a current pick up is slidable along the rails, the pick up having a projecting portion projecting out through a slat in the underside of said channel.

FEBRUARY 10

134557. Council of Scientific and Industrial Research. Improvements in or relating to methods of making water permeable drains. Consists of water permeable rope further characterized in that a through-hole is provided in the entire length of the water permeable rope.

134558. N.P.B. Menon. A retireving apparatus for preparing a spool of plain berbed tape. [Divided out of No. 128335; ante-dated to September 8, 1970]. Comprises an unwinding unit having a flattening machanism supported on a stanchion or upright bar for flattening said tape and an empty spool on which the flattened tape may be wound.

134559. N.P.B. Menon. Berbed tape. [Divided out of No. 128335; ante-dated to September 8, 1970]. Consists of a continuous length of steel strip which is slotted on either side thereof so as to produce a multiplicity of barbs at a predetermined distance apart from one another.

134560. Sir James Farmer Norton & Co. Limited. Improvements in or relating to apparatus for treating webs. (February 10, 1971). Comprises a vacuum chamber having a slot, an impregnation bath and an imperious vacuum-sealing belt.

134561. The Metal Box Company Limited. Improvements in apparatus for sealing cartons. (February 12, 1971). Comprising an elongated member connected through value with a source of air, a nozzle having opposed slots, closure flaps defined by a cover member.

134562. Void.

134563. Banque Pour L'Expansion Industrielle "Banexi". Compositions for the removal of hydrocarbon and industrial waste by biological degradation. Comprising an absorbing mineral substance and 10 to 40% by weight of an oxygenating compound.

134564. Bayer Aktiengesellschaft, formerly known as Farbenfabriken Bayer Aktiengesellschaft and Deutsche Gold-Und Sliber-Scheideanstalt vormals Roessler. Process for the vulcanization of natural or synthetic rubber. Comprising heating the rubber with sulphur x and/or a sulphur donor and with an accelerator composition comprising (a) at least one 1, 3, 5-triazine disulphide and (b) at least one mercapto accelerator.

134565. Pfizer Inc. Process for preparing substituted 1-phenyl-6-azacytosines. (July 15, 1971). Treating 1-phenyl-5-halo-6-azacytosine with a suitable amine.

134566. Mail Order Sales Private Limited. Apparatus for exercising wrists, forearm, and other members of human hands. Comprising a ring frame, a leather strip in the upper half of the ring connected to the ring by six coiled springs, and another leather strip in the lower half of the ring connected by two springs to the ring.

134567. Cluett, Peabody & Co., Inc. Method for producing a knit fabric and apparatus for carrying out said method. Characterized by the steps of knitting a fabric compressively shrinking said fabric, converting said fabric into garment, subjecting said garment to a test force, knitting additional fabric and an additional garment therefrom, repeating each of the above steps in the enumerated order until the last mentioned fabric and garment are produced approaching the optimum of comfort level.

134568. Void.

134569. Joseph Lucas (Industries) Limited. Starter motors. (February 19, 1971). Comprising an electric motor, a shaft, a pinion gear wheel electromagnet comprising armature poles around said shaft, a member magnetically interconnecting first and second poles, electromagnet winding.

134570. Dr. Beck & Co. (India) Limited. Improved polyester wire enamels from polyester scrap. Comprising interesterification of high molecular weight linear terephthalic polyester waste with or without glycols using a transesterification catalyst and an acidic catalyst.

134571. Dr. Beck & Co. (India) Limited. Process for the production of improved polyesterimide resins from polyester waste or scrap. Comprising transesterification of polyethylene glycol terephthalate waste with thihydroxy or higher hydroxy compound and one or more dihydroxy compounds and further treating with a diimidodicarboxylic acid.

134572. Eli Lilly and Company. Process for preparing 3-methylenecephem compounds. Comprises reducing corresponding 3-substituted-methyl cephen compound in an inert solvent.

134573. Siemens Aktiengesellschaft. Improvements in or relating to oscillator frequency control circuits. (October 21, 1971). Comprises two mixer stages, an integrating network and a differentiator networks the output voltages of the network being rectified and supplied to an frequency adjusting element in said oscillator.

134574. Raghunath Karbhari Wagh. An improved friction drive to enhance mechanical advantage.

134575. Void.

134576. Natvarlal Revashankar Trivedi. Improvements in or relating to hasps for doors and the like and method of manufacturing such hasps. Characterised in that it comprises a leaf having an extension adapted to press fitted within slots of a pipe section covered by a tight fit sleeve.

134577. Natvarlal Revashankar Trivedi. Improvements in or relating to tower bolts and method of manufacturing such tower bolts. Comprising tubular member, base plate, pair of slots at lower end, a rod with spindle, knob assembly, sleeve member, blind hole at top and of the rod having a spring load ball for light fit.

134578. Baldev Krishan Sehgal. Improved record type medical syringe. Characterised in that the glass barrel is provided with a circular groove at each end, and which is further characterised in that the said circular grooves are provided with a treaded collar each.

134579. Void.

134580. The General Corporation. A colour television receiver for use in transmission systems. (October 7, 1971). Comprising means for providing an offset sub-carrier and means providing a reference sub-carrier for use in demodulation along the first modulation axis, means which provides said reference sub-carrier comprises means providing a sub-carrier of a frequency double the frequency of colour sub-carrier from offset cub-carrier, means for frequency dividing by two the sub-carrier of said double frequency.

134581. Void.

134582. Imperial Chemical Industries Limited. Manufacture of hipyridylium salts. (February 22, 1971). Comprises reacting a metal-pyridine inseraction product with an alkylene oxide and a subsequently oxiding (i) the 1, 1′-disubstituted-1, 1′, 4, 4′-tetrahydro-4, 4′ bipyridyl reacting product thus obtained (ii) a 1, 1′-di(hydroxyalkyl)-1, 1′-4, 4′-tetrahydro-4(4′-bipyridyl obtained by protopation of the said reacting product or (iii) a 1, 1′ di(alkyoxyalkyl)-1, 1′, 4, 4′-tetrahydro-4, 4′-bipyridyl obtained by alkylation of the said reaction productions.

134583. Stamicorbon N. V. Process for preparing 2-(α -cyanoethyl)-N- substituted acetaldimines. Reacting in the liquid phase a corresponding-N-substituted acetaldimine with acrylonitrile.

134584. Joseph Lucas (Industries) Limited. Fluid pressure fluctuation damping device. (March 1, 1971). Comprising a chamber connected to receive fluid and a resilient compressible body contained in and movable at a whole within the chamber.

134585. Void.

134586. Smith Kline & French Laboratories Limited. Process for the preparation of heterocyclic compounds which inhibit non-Hi-histamine receptors. (March 9, 1971). Pharmacologically active compounds, which exists as the addition of salts.

134587. Wilhelm Stahlecker G.M.B.H. Spinning turbine. A spinning turbine adapted to rotate within a housing which is maintained under a pressure below atmospheric and the back wall of which is provided with a bore through which the turbine shaft extends which is rotatably mounted outside the housing on indirect bearing means, in which air damming chambers are provided within the area of the ore and/or within the area adjacent thereto between the back wall of the housing and the rotary turbine parts.

134588. Void.

134589. The Carborundum Company. Impact molding polyesters. [Addition to No. 126610]. [Divided out of No. 126610; ante-dated to May 11, 1970]. Polyester is impact moulded at a temperature in the range from about room temperature to 700°F and by imparting an energy of from 10,000 foot pounds to 150,000 foot pounds.

134590. The Carborundum Company. Process for reducing the porosity of an oxybenzoyl polyester film [Divided out of No. 126614; ante-dated to May 11, 1970]. [Addition to No. 126610]. The oxybenzoyl polyester is plasma sprayed on a substrate to form a film and the surface of the film is subjected to shearing action.

134591. The Carborundum Company. Polyester coated wire. [Divided out of No. 126615; ante-dated to May 11, 1970]. [Addition to No. 126610]. Hot wire is passed through a mass of granules of the polyester and the wire thus formed is drawn through a die having a diameter less than the diameter of the coated wire.

134592. Hindustan Lever Limited. Razor blade dispenser. Razor blades stacked one upon the other on a plate loaded resiliently to press the blades against the roof of the dispenser, each blade being individually dispensable through a slit having its upper edge in line with the internal surface of the roof by means of a pusher.

134593. Void.

134594. Frunzensky Polytekhnichesky Institut. Graphics teaching machine. Wherein the decoder includes an AND-circuit operating when the student's answer in correct and having its inputs connected to the answer input device via respectively identically connected diedes of the coder, and a delay element resetting the AND-circuit to its original state with a given time delay after its operation, the input of the delay element being connected to the output of the AND-circuit.

134595. Void.

134596. Void.

134597. Wheelabrator-Frye Inc. Apparatus for the surface cleaning of castings. Comprising open sided tunnel characterised in that means for conveying parts having a drawbar with spaced projection, means for reciprocating drawbar and means for displacing the drawbar towards the tunnel for engagement with projections.

134598. USS Engineers and Consultants, Inc. Apparatus for measuring oxygen content of a fluid. Comprising a solid electrolyte button adapted to contact the fluid. a metallic oxygen reference material in contact with the electrolyte button a thermo-couple, an electronic conductor adapted to contact the fluid, protective tubing for the reference material, the thermocouple and electronic conductor, and electric connections thereof with an indicator device.

134599. Dresser Industries Inc. Annular seal assembly and arrangement of annular seals. Comprises a tangent ring assembly having an outer periphery an inner periphery, an annular first face an annular second face a plurality of arcuate members, a radial ring assembly having inner outer periphery an annular face and a plurality of arcuate members.

134600. Dresser Industries, Inc. An improved compressor, pump or the like. In an improved compressor, pump or the like including a cylinder a plunger arranged to reciprocate in the cylinder and a lubrication system including a source of lubricant under pressure.

134601. Void.

134602. Universal Oil Products Company. Device for converting oxidisable components of exhaut gases of an internal combustion engine into carbon dioxide and water vapour. Having a fixed bed of catalyst providing a gas hourly space velocity of about 50,000 to 1,000,000 and heat capacity of the converter system being about .023 to 0.23 cal/oC.

134603. Torben Christen Hansen Professor and Thomas Ringsholt. Method for production of a building material on basis of laterite. (March 22, 1971). Comprises producing mixture of laterite and lime, and water if necessary, pressure molding the mixture to desired form and steam curing for at least 2 hours at a temperature between 60°C and 100°C.

134604. Andre Zurcher. Friction drive. Which include rim of transmission mechanisms and wherein a driven friction ring is brought out of the formed travel through the standstill to rearward travel for bringing about an infinite change the transmission ratio during continuously rotating driving friction ring.

134605. Clayton Dewandre Company Limited. Improvements in and relating to fluid pressure operated brake actuators. An air pressure operated actuator of the kind referred to, wherein the ported end wall or pressure plate of the actuator and a diaphragm adjacent thereto are formed or provided with co-acting annular valve and seating structures which when in engagement seal off the port in said wall or place but at the same time define a chamber substantial cross-sectional area between the diaphragm and said plate or wall and in permanent communication with the port whereby air introduced under pressure through the port will act at all times over a relatively large area of the diaphragm.

134606. Norman John Garrod. Improvements in or relating to packaging gramaphone records. (March 1, 1971). Comprising an outer sleeve and an inner sleeve received by the outer sleeve comprising a part of side members connected on at least two edges by flaps integral with one side member and folded.

134607. Sundstrand Corporation. Hydromechanical transmission. Having a mechanical power path and a hydraulic power path with an output differential combining the torque of the two paths providing variable output.

134608. Joseph Lucas (Industries) Limited. Electrical switch. (March 20, 1971). The prism comprising a transparent body having first, second and third surfaces, the second surfaces having positioned, adjacent the pair of legends, the first surfaces being disposed to be visible at one end of the operating members, and the third surface having mutually inclined portions arranged so that, in use when the operating member is in one of its position, an image of one of the legends is reflected from one of the mutually inclined portions towards a predetermined area of the first surface and when the operating member is in the other of its position, an image of the other legend is reflected similarly.

134609. Joseph Lucas (Industries) Limited. Electric switch arrangement. (March 5, 1971). Comprising first and second contact arms engaged by actuating mechanism, first and second terminals, first, second and third pivot, actuating mechanism actually the contafts of terminals and arms.

134610. Pioneer Electric Brandon Limited. Bistable thermal relay. Comprising snap-switch two stable state an operator. two bimetals. resilient mounting means, adjustment means for deferming said mounting means to change said datum position.

134611. Void.

134612. Void.

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134613. Void.

134614. Void.

134615. Void.

134616. Industrilaboratoriet AB. Improvement in machines for the manufacture of wax matches. Characterised in that the string forming means comprises a number of rollers, which are rotatable on axes which are located in substantially transversal plane of which at least a part is mechanically driven, and fixed guide means equal in number to said rollers and defining therewith a closed inlet opening for said strip.

134617. Void.

134618. Wood Brothers Glass Company Limited. Improvements in or relating to the marking of graduated volumetric measuring vessels of glassware and like materials. Formed with a graduation line to show the measured volume of liquid with a permanent dark area not more than 1 mm. below the graduation line.

134619. Metallgesellschaft A.G. Process and reactor for an oxygenating cracking of hydrocarbons to produce low methane gas. Comprising introducing jets of hydrocarbon and steam into an reaction chamber containing an outer annular chamber communicating with the reaction chamber at a higher pressure than the pressure in the reaction chamber which is kept at a temperature of at least 400°C.

134620. Darjavno Stopansko Obedinenie Pharmachim. Method for obtaining of 1-benzhydryl-4-clinnamyl piperazine. The benzhydryl chloride is initially reacted under heating vith surplus piperazine to form benzhydril piperazine which is condensed immediately with cinnamyl chloride.

134621. Robert Bosch GmbH. Improvements in or relating to saggars for sparking plug flints. In an extension of the holes there are concentric holes of smaller diameter which penetrate the remaining part of the saggar base.

134622. Sandvik Aktiebolag (formerly known as Sandvikens Jernverks Aktiebolag). Drill rod coupling. (January 6, 1972). In which the recoupling of the rods is effected by the provision of additional threaded portions arranged along each rod and separated by portions of reduced cross-sectional area.

134623. Void.

134624. Filial Tsentralnogo Nauchno-Issledovatelskogo Instituta Chernoi Metallurgii Imeni I.P. Bardina.. Mound with swinging gear for continuous casting of metals. Comprising a swinging gear mounting the mould, and having movable member, the gear being designed in such a way hat its movable member coupled to the mould with the aid of a rigid joint in capable of swinging back and forth, through an angle corresponding to a spacing between the slots in the mould.

134625. Void.

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134626. Myadam Narsing Rao. Improvements in or relating to ink bottles and the like. A hollow detachable member accommodable in liquid tight fit in the neck, one end of the member having a mouth communicating with the interior of the body.

134627. Dunlop Limited. High performance pneumatic tyres. (February 23, 1971). Containing beneath the tread portion a single layer of material having a high modulus and a melting point above 300°C and a high thermal conductivity.

134628. Westinghouse Brake and Signal Company Limited. Valve means. (March 5, 1971). Valve means having first means a part of which is movable throughout a range of operational movement, damping means effective in operation of the valve means, resilient means to which is applicable motion of said part and a valve closure member movable throughout a range of operational movement thereof.

134629. Dejoo Tea Company Limited. Improved automatic weighing machine. [Addition to No. 119215]. Comprises on each side of the open tap container, a small open top chamber called cheek pouches, said cheek pouches having communication with said container through passages formed on the side walls of the container at a selected point in relation to the rotation axis, so that material of low density spills through said passages into said check pouches and the centre of gravity of the accumulating material is lowered.

134630. Imperial Chemical Industries Limited. Process for coating a surface. [Divided out of No. 126945; antedated to June 4, 1970]. Comprises applying to the surface a composition comprising a solution in water or an organic solvent of a halogen-containing complex phosphate of aluminium containing at least one chemically-bound molecule of a hydroxy compound R-OH, and removing the solvent.

134631. Farewerke Hoechst Aktiengesellschaft vormals Meister Lucius & Bruning. Water-insoluble azo dyestuffs and process for preparing them. A process for preparing water-insoluble monoazo dyestuffs wherein an amine is diazotised and coupled with an appropriate coupling component.

134632. Vsesojuzny Nauchno-Issledovatelsky Institut Stroitelnogo I Dorozhnogo Mashinostroinia. Singlebucket excavator. Comprising a turb table a boom hinged to the turb-table by a first hinge, a bucket arm with a bucket articulated to the boom, a six bar mechanism of bucket suspension constituted by two combined four, bar mechanism with the said boom and bucket arm being their common links, and a power cylinder hinged at one end to the turbtable.

134633. Void.

134634. Void

134635. Raychem Corporation. Process for the manufacture of polymers. A process for the manufacture of a polymer having repeating units which comprises polymerizing a monomer or monomers under Friedel-Crafts acylation conditions to yield a polymer having repeating units.

134636. Void.

134637. Gruppo Lepetit S.p.A. Process for benzoxazepine derivatives. A process for preparing an benzoxazepine derivative which comprises treating a N,O-disubstituted hydroxylamine derivative at a temperature varying from room temperature to the boiling temperature of the reaction mixture in presence of a strong base, hydrolysing with aqueous alkaline hydroxide the obtained 2-carbalkoxy or carboaralkoxy benzoxazepine.

134638. Gruppo Lepetit S.p.A. Process for the preparation of 2, 3-benzoxazepine derivatives. Process for preparing a 1, 3, 4, 5-tetrahydro-2, 3-benzoxazepine derivative which process consists in the condensation and cyclization of o-bromomethylphenethyl bromide with potassium salt of N-hydroxyurethan affording 3-carbethoxy-1, 3, 4, 5-tetrahydro-2, 3-benzoxazepine, which is hydrolized to 1, 3, 4-tetrahydro-2, 3-benzoxazepine and optionally transformed in the other derivative.

134639. Gruppo Lepetit S.p.A. Process for preparing new aminosoquinolines. Process for preparing aminoisoquinolines which comprises containing a suitable halo-benzoate derivative with a large excess of hydrazone in a lower alkanol.

134640. The Wheelabrator Corporation. Method and apparatus for conveying particulate matter. Comprising a trough formed of a pair of side and a box, the base including a series of transverse, inclined steps extending over the width thereof, and means to reciprocate the trough in a longitudinal direction.

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134641. Council of Scientific and Industrial Research. A device for warming and cooling human body or food articles. Consisting of a water tight sachet of a flexible plastic material being filled with a gel consisting predominantly of water and 7—20% sodium carboxymethyl-cellulose or admixed with sodium alginate and preferable some gelling agent.

134642. Void.

134643. Void.

134644. Sterlitamaksky Opytne-Promyshlenny Zavod Po Priez-Vodstnu Izoprenovogo Kauchuka and Vsesojuzny Ordena Lenina Elektrotekanichesky Institut Imeni V. I. Lenina. Method of producing isomers of methyltetrahydrophthalic anhydride. Condensing trans-piperylene and maleic anhydride in an organic solvent at 40—90°C with subsequent thermal treatment of the at a temperature of 150°—250°C.

134645. Maschinenfabrik Rieter A. G. Apparatus for interrupting a supply of fibre material to an individual spinning rotor of an open end spinning machine. (July 21, 1971). Comprises a combing roll, a combing roll housing and means for removing from the action area of the combing roll a fibre beard of an end of a sliver.

134646. Maschinenfabrik Rieter A. G. Lubricating device for textile spinning and twisting rings (August 24. 1971). Wherein a lubricant reserve reservoir is provided for supplying the absorbing body in the supply reservoir with lubricant. the reserve reservoir being so arranged that the maximum lubricant level in the reserve reservoir is lower than the bottom of the supply reservoir containing the absorbing body.

134647. Maschinenfabrik Rieter A. G. Apparatus for separating opened fibre flock. (October 12. 1971). Wherein at least two inlet openings for the flock-laden carrier air are arranged in an upper part of the duct each inlet opening has a rotor wheel arranged concentrically of the opening.

134648. Void.

134649. Void.

134650. Shell Internationale Research Maatschappij N. V. Microbiological process. (February 19, 1971). Comprises inoculating with a culture of the microorganisms a sterile liquid growth medium containing assimilable sources of nitrogen and essential mineral salts.

134651. Aeroquip (U.K.) Limited. Fluid seal assembly. (February 17, 1971). Comprising a first and second annular members of channel cross-section with means for axial movement between the member and resilient means between them to bias the members apart.

134652. Fabbrica Italiana Magneti Marelli S.p.A. An electronic circuit for controlling signalling devices, particularly for motor-vehicles. Comprising a series of cascaded transistors comprising at least a first transistor, a final transistor and an intermediate pilot transistor, having its emitter connected through a resistive circuit to supply line and the base of the first transistor is connected by means of a feedback capacitor to the collector of the final transistor.

134653. USS Engineers and Consultants, Inc. Apparatus for and method of printing and dispensing labels. Printing pre-determined indicia an elongated member, comprising frame having relative movement with respect to elongated member and printing device and frame engageable with elongated member and driven by relative movement to print indicia and, said member.

134654. Dresser Industries, Inc. Packing for compressors. pumps or the like. Comprising cylinder and plunger having first means with inner periphery and end face, and second means with inner periphery and end face, one of them having pressure-responsive lip to hold end faces tighter sealing engagement.

134655. Centrala Industriala De Medicamente Si Coloranti. Process for obtaining calcium salt with high solubility and high content of calcium ions. Comprising dissolving a mixture of calcium lactate and calcium gluconate in water, concentrating the solution by boiling and their separating the calcium salt by organic solvent or by atomizing.

134656. Filial Tsentranlnogo Nauehno-Issledovatelskogo Instituta Chernoi Metallurgii Imeni I.P. Bardina. Device for ingot withdrawal from mould during continuous casting of metals. Wherein the endless chains made up of interconnected links which are built-up of pulling members carrying on the ingot side secured to them shaped insert pieces which are in direct contact with the ingot.

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134657. Director-General, Geological Survey of India. Manufacture of defluorided water. Purifying water to make it suitable for drinking by removal of fluride from it and adjusting its pH between 7 and 8 comprising treating such water with magnesium oxide followed by treatment with carbon dioxide.

134658. Director-General, Geological Survey of India. Manufacture of defluorided water using serpentine. Defluoridation of natural water by treating the same with serpentine.

134659. Director-General, Geological Survey of India. Manufacture of magnesium sulphate from serpentine. Wherein uncalcined serpentine is treated with cold sulphuric acid.

134660. Director-General, Geological Survey of India. Manufacture of magnesium chloride from serpentine. Wherein the uncalcined serpentine is treated with cold hydrochloride acid.

134661. Void.

134662. Sunkist Growers Inc. Apparatus for automatically selecting between a plurality of generally spherical objects. Characterized by a source of penetrating rays, means capable of translating successive changes intransparency between different parts on opposite side of the center of each objects subject to said rays in an integrated electrical signal.

134663. Sherritt Gorden Mines Limited. Container and method for separation of solids from a liquid containing said solids. (March 29, 1971). Comprising a vertically extending interior wall, an upper inlet port for supply of liquid, an upper outlet port for the withdrawal of gas, a lower inlet port for the supply of gas and a lower outlet port for the withdrawal of liquid and precipitated solids, a plurality of vertically spaced partitions defining upper and lower limits of gas-liquid contact zones within the container; and a plurality of light weight spheres confined within and freely movable throughout each contacting zone.

134664. Dunlop Limited. A wheeled vehicle having skid control system and skid control apparatus for prevention of a containing non-rotating wheel condition. (February 23, 1971). A wheeled vehicle having a skid control system in which to prevent a continuing non-rotating wheel condition in a wheel on the vehicle, the vehicle being driven by means other than said wheel, when moving on the ground a positive drive is applied to the wheel to drive the wheel upto a predetermined low speed, said drive being disengaged when the wheel is rotating at a speed above said predetermined speed.

134665. Griling Limited. Improvements in hydraulic vehicle braking systems. (August 10, 1970). [Addition to No. 128843]. [Divided out of No. 128843; ante-dated to October 16, 1970]. Improvement in Indian patent specification No. 128843 wherein the emergency brake control means and lock control means are formed as two separate elements manually operable by a single manual control.

134666.Void.

134667. Hindustan Lever Limited. Animal feedstuff. (February 24, 1971). Comprises subjecting lignocellulose material and aquous alkali mixture to intense mechanical working at a temperature of at least 60°C.

134668. Standard Brands Incorporated. Process for the isomarization of glucose to fructose. A process for enzymatically converting a portion of the glucose in a glucose-containing solution to fructose, which process comprises treating viable micro-organisms which contain intracellular glucose isomerase with an amount of toxic agent such as ethylenimine, N. methyl-N' nitro-N-nitrosoguanidine and ultraviolet light which destroys at least 95 per cent of the viable micro-organisms, culturing the micro-organisms remaining viable after said treatment under conditions to promote growth thereof, incorporating the glucose isomerase thus procuded into a glucose-containing solution and maintaining the glucose isomerase in the solution under conditions whereby a quantity of the glucose is converted into fructose, the treated viable micro-organisms, being characterized as producing at least about 30 per cent more glucose isomerase than untreated micro-organisms when cultured under the same conditions.

134669. Envirotech Corporation. Agitator drive assembly for drum type filters. Having a removable rotatable pin passing through bearing means to engage and drive the hub of the agitator and fastening means to secure the pin to the hub and also means for disengaging them.

134670. Sibirsky Gosudarstvenny Nauchno-Issledovateslky institut metrologii. Measurement unit of Q-meter. Comprising a variable capacitor electrically coupled with secondary winding of a transformer of hollow column around ring shaped core and primary winding, terminals, current collector, moving element.

134671. Void.

134672. Wellman-Power Gas Incorporated. Process of removing sulfur dioxide from a gas stream. Characterised by having an undissolved solids content in the slurry passing through the heat exchanger tubes of at least about 25 weight percent.

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134673. Wilhelm Hegler. Apparatus for the production of transversely profiled plastics pipe. Comprising recirculating mould halves combining longitudinally devided moulds in the straight part of the path so that during inswing in the straight path trailing ends of the hollow sides of the mould halves travel along a circular arc of greater radius than the arcuate path of the leading ends.

134674. Moskovskoe Otdelenie Tsentralnogo Nauchno-Issledovatelskogo I Proektnokonstruktorskogo Kotloturbinnogo Instituta Imeni I. I. Polzunova. A device for feeding loose materials. Comprising a receiving pipe, a batcher, receiving tables, a scraping strip, having made in the form of a continuous multirow chain, a conveyor disposed under the working tables and adapted to receive the material.

134675. Ronald Leacock. Automatic machine tool. Comprising a main housing, a machine tool attachment engagement means, means for biasing machine tool attachment, a main cam mounted within said housing, means for rotating main cam, and a cam follower secured directly to machine tool attachment.

134676. Whittaker Corporation. A process for producing a pearlescent pigment. Comprises impregnating mica platelets with hydrochloric acid, hydrolyzing bismuth trichloride in its presence and recovering the pigment as a coating from the mica platelets.

134677. USS Engineers and Consultants, Inc. Apparatus for controlling weight and distribution of a coating on a substrate. Providing hot dip coating operations wherein a substrate such as a steel strip, is coated with a metal employing fluid nozzles.

134678. USS Engineers and Consulants, Inc. A process of forming a metallic coating on a moving strip emerging from a bath of molten coating material and an apparatus therefor. Providing a metallic coating to a moving strip emerging from a bath of molten coating material, the thickness and distribution of liquid coating material being controlled by a fluid jet.

134679. Sherritt Gordon Mines Limited. Process for the treatment of nickel and cobalt bearing material. (March 5, 1971). In a process for heating nickel and cobalt bearing material in which the material is leached in one or more stages with an ammonium salt leach solution under a positive pressure of an oxidizing gas, after which the solution is separated from undissolved residue and is treated with a sulphidizing agent, so as to retain a maximum amount of the nickel content in the solution while separating a maximum amount of the cobalt as a mixed-cobalt sulphide precipitate containing a minimum amount of nickel.

134680. The Upjohn Company. Process for the preparation of 7-phenyl pyrimido [1, 2-a] [1, 4] benzodiazepine-1 (5H)-imine. [Divided out of No. 131529; ante-dated to May 28, 1971]. Comprises heating 7-phenylprimido [1, 2-a] [1, 4] benzodiazepin-1 (5H) one with PS_5 in pyridine and contacting the product with a lower alkanol in anion NH_3 is dissolved.

134681. Institutul De Cercetare Si Projectare Technologica Pentru Prelucrarea Titeiului. Procedure and reactor for destructive hydrogenation of lube oils. Comprises two successive and distinct layers of specific or different catalysts, laid in the same reactor, of which the first catalyst has chiefly a hydrogenation function, and the second one has the main function of hydrocracking-isomerization.

134682. Void.

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134683. Void.

134684. Void.

134685. Void.

134686. Void.

134687. Drilimac Limited. Improved drilling apparatus. Comprising a kelly bar, one or more drill pipes forming a drill string, one or more drill pipes with nozzles, the nozzle pipes being staggered between the drill string pipes, the upper end of the nozzle being connected to the lower end of the kelly bar or lower most drill pipe or nozzle pipe, as the case may be adapted to be connected.

134688. Ahmedabad Textile Industry's Research Association. Amorphization of cellulosic material. Swelling the material by treating it with aqueous or alcoholic alkali solutions removing the excess alkali and water or alcohol from the swollen material treating the resulting alkali cellulose with an acylating agent and removing the unreacted acylating agent.

134689. Institutul De Cercetare Proiectare Technologica Pentru Prelucrarea Titeiului. Tray with self-guiding target valves for gas-liquid and vapor-liquid contacting. Characterised in that they are made up of a profiled plate with weir and orifices, vertically limited by some fixed parts under the tray plane, in each orifice being placed a self-guiding target valve, the target valve being provided on the lateral surface of the truncated cone with slots, as well as blades slanted towards are interior of the truncated cone and for limiting upper position of the target valve.

134690. Imperial Chemical Indusries Limited. Stabilised rubber compositions. (March 1, 1971). Stabilised rubber compositions containing 0.1 to 40% of the weight of rubber of an acyl compound which is an acyl derivative of a nitroso compound.

134691. Void.

134692. Tenneco Chemicals, Inc. Process for preparing substantially nonlustrous open pore polyurethane foams in situ. The improvement comprises: the substitution of from about 5 percent to about 35 percent by weight of the polyhydric polyester by equal weight of an isocyanate reactive polyether polyol, and the addition to the reaction mixture of a hydrophilic organosilicon foam-stabilising emulsifier-surfactant designed and adapted for use in the preparation of urethane polymer foam from a polyether polyol and an organic polyisocyanate, and a hydrophobic, antifoaming organo-silicon compound.

134693. Dunlop Limited. Improvements in or relating to manufacture of tyres. For building up a radial ply type making up a hollow cylindrical radial carcass ply pocket, bead cores positioned and shaping the carcass ply region situated between the bead cores into a toroid and turning over carcass ply ends about the bead erores.

134694. International Nickel Limited. Process for the preparation of chromium-nickel alloy products. (March 2, 1971). An alloy containing from 40 to 55% chromium, niobium in such a amount such that from 0.2 to 2% remains uncombined with nitrogen, the balance apart from impurities including nitrogen, being nickel and the nitrogen content does not exceed 0.3%.

134695. Void.

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134696. Void.

134697. Void.

134698. Mullankochi Govinda Bhat and Gopal Bhat Nooji. A process for the preparation of hot beverage from dried arecanut. Comprising applying a thin coating coating of ghee to the nuts, frying without crushing, with sand and mixing with fried raw rice, grinding the mixture and boiling water, sugar and milk.

134699. Kadaviparambil Kacko Xavier. A machine for casting reinforced cement concrete pipes. Comprises a cylindrical shell in halves with flanged joints, two hollow collars at two intermediate points between the shell's ends, a coupling device by which the rear end of the shell is connected to a speed reduction gear unit driven by a motor.

134700. Delle—Alsthom. An elongated insulator casing of a cut-out chamber for an electric circuit breaker. An elongated insulator casing of a cut-out chamber for an electric circuit breaker containing a fixed contract and a mobile contact assembly which determine a minimum dimension for the inside cross-section of the insulator in each of the space zones comprised along the insulator and a maximum value of that minimum dimension in at least one of these zones and comprising two opposite end holes of which the inside cross-sections have values lower than the said maximum value, wherein the inside cross-section of a first of the said end holes is that required for inserting a support rod of the fixed contact, which passes in a fluid-tight manner through the first of the said end holes, and the inside cross-section of the second of the said end holes is that required for the insertion of the fixed contact and of the mobile contact assembly in the insulator, the second of the said end holes being scaled in a fluid tight manner by a support plate of the mobile contact assembly.

134701. Void.

134702. Dr. Beck & Co. (India) Limited. Process for the preparation of enamel based on novel esterimide resins. Process for the preparation of esterimide resins in a solution from where in the said resin is made by reacting an epoxy resin with one or more polybasic carboxylic acid and one or more polyamines.

134703. Dr. Beck & Co. (India) Limited. Method of curing epoxy resins. Comprises treating the resin at room temperature with a hardener being a mixture of aniline formaldehyde resin and cardanol.

134704. A. R. Wilfley & Sons, Inc. Vertical centrifugal pump. Characterised by a stationary means adjustment expeller means to form a labyrinth seal, adjustment means for adjustment the clearance between the empeller and the pump case.

134705. Glaverbel. Process and apparatus of manufacturing sheet glass, and sheet glass resulting therefrom. Characterised in that flow of molten glass into the ribbon from at least one part of the kiln is promoted, in order to improve the uniformity between glass currents feeding different parts of the ribbon, by passing electric current through molten glass in that part or parts of the kiln, between electrodes which are at different levels in the kiln.

134706. Glaverbel Meçaniver. Process and apparatus for manufacturing sheet glass, and sheet glass itself. (January 24, 1972). Characterized in that in at least one place is spaced inwardly from a boundary of the surface of the molten glass in the kiln the molten glass in the kiln is heated to maintain at that place a thermal barrier formed by an upward flow of molten glass which rises to said surface from a position in the vicinity of wall portion of or in the kiln so that molten glass behind the barrier is prevented from flowing beneath the barrier.

134707. Void.

134708. Ia Telemecanique Electrique. Cell for sequential automation control circuits and circuits formed by such cells. Characterised in that it comprises a first connection supplying a first output signal and a second connection supplying second output signal.

134709. The Air Preheater Company. Inc. Burner for incinerator. A pilot burner for igniting the mixture of fuel and air to produce a flame, a branch chamber at the side of said housing, a thermocouple in said branch chamber subjected to the temperature of the burning fuel and air in the pilot burner, means responsive to said thermocouple controlling the valve in the fuel supply line.

134710. The Associated Cement Companies Limited. A process for the preparation of zeolite X crystals. Comprises preparing a mixture of a source/sources of silica a source/sources of alumina and a source/sources of alkaline salts of sodium as aqueous solution or suspension and/or powder in presence of water characterized in that to promote crystallization and yield of high purity crystals on heating neutral salt/s of sodium is/are added to the aqueous system beyond the minimum alkalinity of 0.29 in the aqueous system.

134711. The Associated Cement Companies Limited. A process for the preparation of zeolite A crystals. Comprises preparing a mixture of a source of silica/alumina/alkaline salts of sodium as aqueous solution or suspension characterized in that to promote crystallisation and yield of high purity crystals on heating neutral salts of sodium are added to the aqueous system.

134712. Orissa Cement Limited. Improved refractory sleeve for stopper rod. Characterised by that the sleeve is made of fireclay, bauxite, kyanite, diaspore, sillimanite, andalusite or mixture thereof having less than 50% AL_2O_3

which forms the inner shell of the sleeve with serrated, roughened or recessed outer surface over which is rammed a refractory lining having higher refractoriness and higher thermal conductivity than the inner shell.

134713. Orissa Cement Limited. Improved refractory stopper head. A stopper head of fireclay graphite refractory material consisting of fireclay graphite and silicon carbide fired of a temperature of 1300°C and above in reducing atmosphere where in the silicon carbide addition is upto 30 per cent by wt. of the total body composition.

134714. Orissa Cement Limited. Manufacture of refractory and non-refractory articles with the use of new bonding agents. Comprises adding bonding agents consisting of acetic acid, sodium acetate, ammonium acetate, citric acid, tarteric acid and the alkali salts of tartaric acid to a material contained calcined magnesia with or without water followed by drying and curing.

134715. Pactide Corporation. Improvements in distillation apparatus. [Addition to No. 127182]. Having liquid conducting means removably associated with distillate conduits, liquid conducting means including resilient means engaging main wall of the housing around the peripheries of conduit openings in the main wall so that liquid light seals are formed between the housing and the liquid conducting means.

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134716. Council of Scientific and Industrial Research. A photo-emulsion for printed circuits, silk screen printing or photo-ethching of surfaces such as plastics, glass sheets and instrument panels. Characterized in that fish glue, albumin and water are mixed and adding thereto shellac dissolved in spirit, PVA and gelatine in the following percentage by weight of the composition :—Shella—6—7 per cent, dissolved in spirit—7—8 per cent, PVA—12—13 per cent, gelatine—7—9 per cent, albumin egg 12—13 per cent, fish glue 6—8 per cent and water 37—42 per cent.

134717. Council of Scientific and Industrial Research. A crystal probe for ultrasonic flaw detectors. Comprising a housing for a crystal and a backing material attached to the crystal and a backing material attached to the crystal whereby when the crystal is energised and suitably earthed by an earthing connection and the probe is pressed ultrasonic flaw detector.

134718. Hindustan Lever Limited. Process for the production of cold water soluble tea. Solubilizind cold water insoluble constituents of a hot water extract of tea by treating the optionally separated cold water insoluble constituents from hot water extract of the tea with tannase fixed on a solid support.

134719. Imperial Chemical Industries Limited. Recovery of hydrogen fluoride. (March 8, 1971). Comprises passing the gaseous mixture through a mixture of an alkali-metal fluoride in an inert liquid maintained at a temperature upto 180°C and thereafter heating the mixture above 180°C to liberate hydrogen fluoride.

134720. Joseph Lucas (Industries) Limited. Electro-mechanical voltage regulators for use in battery charging systems on road vehicles. (March 1, 1971). An electro-mechanical voltage regulator of the kind specified including means spearable when the battery is incorrectly connected for reducing the regulated voltage to a value such that the cut-out contacts are not closed by the cut-out winding.

134721. C. A. V. Limited. Governor mechanism. (March 1, 1971). A piston within a cylinder, link means connecting the piston with a fuel control rod of the pumping apparatus, means biasing the piston towards one end of the cylinder and valve means for controlling fluid under pressure.

134722. USS Engineers and Consultants, Inc. Adjustable conducting roll apparatus. Characterized in that the bearing blocks of a pair of opposite rolls are arranged in a frame movable within a stationary frame, the extensible device is fixedly mounted on the movable frame, the arrangement being such that actuation of said extensible device for movement in one direction will move rist one roll and subsequently the other roll into engagement with the workpiece for completing the driving engagement.

134723. John Anthony Findlay. Process for the preparation of tridecadienoate compounds. Treating 3-methyl-1-penten-3 ol with ethyl venyl ether heating the compound to obtain the 5-methyl-4-hepten-1-al, heating with magnesium halide, oxidising the 7-methyl-6-nonen-3-ol and heating with the ylid to obtain 6-ethyl-10-methyl-dodeca-5, 9 dien-2-one ethylene ketal, treating with acid, anion and with an N-halosuccinimide in that order and finally treating with an alkali metal isopropoxide.

134724. HMS—Iberica, S. A. Static heat generator for the conversion of liquids into dry micro-particles and into non-particular gases. Characterised in that the liquid product to be atomised is subjected to a high pressure in a mixing chamber, where the liquid is introduced through a key device to a circuit which constitutes a pre-heating coil, the end of which is a turbine type ejector which atomises liquid inside the mixing chamber, it further provided with shielded electric resistors and at its upper portion with a filler and an ejection tube.

134725. Void.

134726. Void.

134727. Varahur Srinivasa Satyanarayans. Piston rings. Comprising two conventional rings held or a ring point and gaps of said rings being spaced apart.

134728. Void.

134729. Void.

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134730. The R. G. Sales (Pvt.) Limited Live ring for tyre for rotary kilns. Comprising a live ring or tyre for a rotary kiln having at least two segments with means to secure them together, the securing means comprises mating notches provided at the end of the segments and fastening means to secure the notched ends together.

134731. Mahendra Pratap. Improvements relating to duster. Comprising an air pump the front portion of its, barrel permanently joined to the top of a container or its lid, there on the top, the valve and nozzle being also fixed on the top of the container or to the joined lid.

134732. Pechiney Ugine Khulmann. A process for removing zinc from industrial sodium aluminate liquors. Characterised in that zinc is introduced into the liquor before separation of the red mud in such quantity that zinc sulphide content at the moment of precipitation is at least 0.180 g of ZnS per litre of aluminate solution and sodium sulphate is used for precipitation in a quantity corresponding to between 0.125 and 0.2 g of S per litre of aluminate solution to be purified.

134733. Union Carbide Corporation. Process for olefin separation. Comprising passing the monoolefin hydrocarbon vapours through an adsorber containing a molecular seive having pore diameter of about 5°A.

134734. Universal Oil Products Company. Improvements relating to vehicle seats.(March 3, 1971). Comprising an inner and outer telescopic members resilient means biasing the movable inner member carrying the seat and means for clamping it at a selected height relative to the fixed outer member.

134735. Haarmann and Reimer GMBH. A process for recovering optically pure *d*-and *l*-isomers of menthol, neomenthol and isomnethol. Comprising esterifying d, l, menthol, neomenthol or isomenthol with benzoic acid substituted benzoic acid or hexahydrobenzoic acid, the d, l, mixture obtained is selectively crystallised by innoculation of an oversaturated solution or a melt thereof with the crystals of the pure d-or-l ester and the crystals are hydrolysed.

134736. Miles Laboratories, Inc. Testing device for microorganisms. Comprising a flat absorbent matrix impregnated with nutrient medium, a coloring indicator and a suspending agent.

134737. American Flange and Manufacturing Co. Inc. Self-venting pouring spout. A vented pouring spout formed of synthetic plastics material adapted to be retracted in stored position within a container opening and pulled up to extended pouring position for dispensing of the container contents. The spout is formed at its inner end with venting means for permitting the entry of air within the container through the pouring spout simultaneously with the liquid dispensing.

134738. Girling Limited. Improvements in and relating to servo motors, especially for vehicle breaking systems. (September 6, 1969). Comprises a housing, an output rod passing out of an axial end portion of the housing through an pening in said and portion and a fluid seal arranged within said pening and its inner periphery in similar engagement with said rod as a radial insert in a recess formed readially in said seal.

134739. Standard Brands Incorporated. A process for producing fructose containing syrup. Comprising enzymatically converting starch to deytrose and then enzymatically converting dextrose to fructose.

134740. Agence Nationale De La Recherche (ANVAR). Method for separating hydrocarbons especially aromatic hydrocarbons and apparatus therefor. Characterized in that effecting the fractional distillation of the mixture in contact with a phase containing an organo-metallic compound and collecting the vapor phase having the least affinity for metallic atoms and unvaporised phase having the most affinity for metallic atoms in partially metallated form.

134741. Siemens Aktiengesellschaft. A pulse transmitters for triggering a thyristor. Comprising primary and secondary winding inductively linked with one another the opposite ends of the secondary winding being for connection respectively to the cathode and the control electrode of a thyristor, two metal screens disposed face to face having mutually opposed electrical contact points.

134742. Void.

134743. F. L. Smidth and Co. A/S. A heat exchanger (February 25, 1971). Comprises a housing and exterior means for causing the gas flow to pass upwardly through the housing from the inlet to the outlet, the housing being, in its interior, provided with a longitudinally inclined channel, the housing further having means for supply granular or powdered material to the upper end of the inclined channel, the size and form of the bottom opening in the channel being correlated to the velocity of the gas flow therethrough as to cause the gas to form eddies above the opening.

134744. Void.

134745. Void.

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134746. Devendra Kumar Agarwal. Improvements in or relating to a liquid flow visualization device. Consisting of a smooth nedless circular tube of clear transparent material provided with a light weight coloured ball of lesser diameter than the bore of the said pipe, the said pipe having an inlet and outlet pipe tube of same diameter but less than the bore of the said pipe.

134747. Pechiney Ugine Kuhlmann. A process for the production of finely crystaline abrasive material. Comprises melting the material and solidifying it in contact with cooling blocks which accelerate solidification of molten material having a melting point lower than that of the abrasive.

134748. Institut De Recherches De La Siderurgie Francaise. Improvements in or relating to the metal feed supply of metallurgical plants which require a regular flow of molten metal. Tipping a full vessel to obtain a flow of metal, continuously weighing said vessel to determine the flow of metal, comparing said flow of metal with a reference quantity representing the anticipated flow, developing from the above two flows a differential signal corresponding to any difference in the two, modifying the speed of typping of said intermediate vessel while metal is running out therefrom, to bring said differential signal back to a substantially zero value, and.

134749. Joseph Lucas (Industries) Limited. Dynamo electric machines. A dynamo electric machine, having rotary contact elements and a wiring arrangement supported on an insulating base, to which wiring arrangement a plurality of parts of the machine circuit are connected, includes a brush assembly comprising a housing, a plurality of brushes slidable in the housing, biassing means urging sad brushes into engagement with said contact elements and a plurality of fixing means extending between housing and said insulating base to secure the former to the latter, each said fixing means also providing an electrical connection between an associated brush and a part of said wiring arrangement.

134750. Void.

134751. Void.

134752. Joseph Lucas (Industries) Limited. Electromagnetic relay arrangement. (March 5, 1971). Includes biasing means comprising a member engaging armatures and extending there between substantially parallel to pivotal axes and a pair of springs in spaced relationship extending tranversely of said member and engaging said member and said support.

134753. Joseph Lucas (Industries) Limited. Method of and apparatus for sealing an inert gas under pressure in a container. (March 5, 1971). Comprising a chamber adapted to receive a portion of the container which includes inlet, an inflamable annular seal for sealing portion of the container within the chamber, means for supplying a gas under pressure so that in use gas enters container via the inlet.

134754. Laporte Titanium Limited. Improvements in and relating to the manufacture of titanium dioxide. (June 10, 1969). [Divided out of No. 127001; ante-dated to June 9, 1970]. Comprising separately preheating titanium tetrachloride and oxidising gas to obtain mixed gas temperature of 700°C, introducing the gases in reactor, introducing combustible gases to raise mixed gas temperature about 200°C and below 300°C.

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134755. Pravinchandra Chhaganlal Mehta. Wick type kerosene oil stove. Characterised by the provision of a ratchet and pawl mechanism for raising and lowering the common disc carrier.

134756. Niranjan Sen. Stereo models for representing organic molecules. Comprises at least one peg member and at least one flexible tubular member attached thereto and each having distinctive configuration and/or marking, to permit insertion of the formet into the latter and free relative rotation of the two.

134757. Void.

134758. Cabot Corporation. A carbon black pigments containing vulcanisable composition and rubber products prepared therefrom. A vulcanisable composition comprising rubber and a carbon black product having a tinting strength of at least about 200 a pH value of at least 4.

134759. N. V. Philips Gloeilampenfabrieken. Circuit arrangement having at least one circuit element which is energised by means of radiation. Characterised in that the circuit arrangement comprises a semiconductor device having a semiconductor body with first and second transistors which are arranged in cascade and that the main current of the first transistor is supplied at least mainly by exposing the emitter-base junction of the second transistor to radiation.

134760. Narasinha Govind KAMAT. Dry cells and rechargeable nickel cadmium cells. Comprising a plastic outer casing having and end cap cast integrally and having a contact strip and a second end cap having another contact strip cast with it.

134761. Void.

134762. Joseph Lucas (Industries) Limited. Electrical switches. (March 5, 1971). Comprising a body a roller carried by a rotor mounted in the body defining a movable contact and a pair of contact blades on the body defining the fixed contact and the roller bridging the fixed contacts and the roller bridging the fixed contacts to complete the circuit in on angular position.

134763. Joseph Lucas (Industries) Limited. A method of manufacturing a component for use in a roller clutch assembly. (March 5, 1971). Comprising cropping a steel bar to produce a slug, deforming the slug into cylindrical billet, heat treating the billet to remove work hardening, forming an axially extending, centrally disposed bore in the billet, positioning the billet in a die and using a punch to perform a first impact extrusion process on the billet, heat treating the preform to remove work hardening and using a further punch to perform second impact extrusion.

134764. Void.

134765. Hattangady Vasanth Rao. Air inventer. Comprising two thyristors connected to the two ends of the primary winding of a transformer which thyristors an alternately switched on by a control circuit to apply to each of the two ends of the primary winding, one pole of a D. C. source, its other pole being connected to the centre tap of the primary winding.

134766. Indian Detonators Limited. Water gel explosives. By mixing an oxidizing agent water, a thickening agent, aiding entrapment agent, and a cross-linking agent vigorously shaken.

134767. Void.

134768. Hassan Ranga-Jetty Somasundara. Handy ready reckoner compass. A magnetic needle mounted on a pivot pin carrying an angled transparent dial with graduations and numbers marked on its bottom rim and an agate cap in its centre capable of revolving horizontally over a pivot pin inside the said box, an object glass fixed to the side of the said box opposite to the said dial, an eye piece fixed to the side of the box diagonally opposite to the object glass, a pivot stand carrying a pivot needle on it top, a dial window with a transparent shutter capable of throwing light on the graduations and numbers marked on the dial.

134769. Burjor Rustomji Unwalla. A temple cutter for automatic loom. Comprises a blade fixed between a clamp comprising blade holder base plate and top plate, the blade being held at an angle by the clamp and having a metal yarn guide over it.

134770. Void.

134771. Des Raj Aggarwal. An improved electric plug. Characterised in that it includes a main terminal housing, a top cover and a cable locking nozzle which nozzel is provided with a knurled surfaced head, a threaded shank having a hole of varying diameter.

134772. Council of Scientific and Industrial Research. A process for the recovery of alkali from aqueous solution containing carbonates, hydroxides, phosphates, silicates and aluminates. Characterised in that an oxide hydroxide or carbonate of an alkaline earth metal is added to the solution to precipitate the sparingly soluble salts of alkaline earth metal, filtering and removing excess alkaline metal ions as its carbonate by adding sodium carbonate, and then separating the clear solution containing alkali metal hydroxide which is subsequently concentrated and recovered.

MARCH 1

134773. Development Consultants Private Limited. Improvements in or relating to valves. Comprising a casing, a valve body housed in said casing, a seal, a valve disc mounted on a shaft housed in the valve body, an operating means for rotating the said valve disc.

134774. Void.

134775. Void.

134776. Void.

134777. The Lane Company, Incorporated. Rocker recliner chair. Comprising a base, rocker cam unit, a footrest carried by an extensible left side linkages and by an extensible right side linkage which are mounted on the rocker cam unit, a rocker lock mechanism mounted on the rocker cam unit between the side linkages, and means operatively connecting the rocker lock mechanism with the side linkages for actuating the rocker lock mechanism.

134778. Nippon Card Clothing Co. Ltd. Flat arrangement of a fixed type usable for carding engines. Characterized by at least one fixed carding segment spaced by covering the cylinder periphery from the upper side said segment including at least two saw tooth units disposed to its surface facing the cylinder periphery.

134779. Joseph Lucas (Industries) Limited. Direction indicator electrical switches for road vehicles. (March 20, 1971). Comprising a rotor a pair of pawls with a slot and a pair of post, a bell in each slot, on abutment fixed relative to the rotor, striker on steering column.

134780. Uddeholms Aktiebolag. Making paper and other cellulose products. A process of making paper and other cellulosic products including the step reducing the lignin and lignin demotions from the effluent by contacting it with a porus and granular phenolic resin.

134781. Lansing Bagnall Limited. Electrical motor circuits. (March 4, 1971). Comprising a motor, a control circuit, a safety circuit for monitoring elements of control circuit a relay for disabling the motor, closed loop and means for disabling said loop.

134782. Farbwerke Hoechst Aktiengesellschaft vormals Meister Lucius & Bruning. Process for preparing monoazo pigment. Diazotising 1-amino-2-nitrobenzene, coupling with alkaline solution of 5-(2′-3′-oxynaphthoylamino) benzimidazolone in the presence of a dispersing agent and subsequently heating the pigment obtained in a aqueous alcoholic suspension containing a salt formed from a fattey amine with carboxylic acids.

134783. Shinetsu Chemical Company. Method for suspension-polymerizing vinyl chloride. Characterized by adding an alkaling substance to the polymerization medium before the initiation of the polymerization or the conversion reaches 30 per cent.

134784. Void.

134785. Martin Lessen. Surgical electrode. Comprising an elongated electrode, an electrode at one end, means to guide the electrode tip to a selected surgical area in the body cavity and means to supply an electric discharge pulse to the electrode tip.

134786. Michelin & Cie. Tire having bi-biased carcass and method of making same. Comprises a carcass reinforcement comprising cords forming a network of quadrilateral meshes the sides of the meshes forming with the circumferential direction of the tire acute angles α and β which are different.

134787. The Metal box Company Limited. Can edns. (March 2, 1971). Comprising an end closure member having a line of weakening defining a removable panel and a substantially rigid pull to at least partially overlying removable panel, the pull tab having an anchor portion joined substantially rigidly at a junction adjacent to a portion of the line of weakening.

134788. N. V. Philips Gloeilampenfabrieken. Method of manufacturing a semiconductor device and semiconductor device manufactured by using a method. Characterised in that on a surface of the semiconductor body a masking layer is provided which comprises at least two component layers of different meterials namely top layer and intermediate layer, top layer is provided with an operative termed small aperture and intermediate layer is provided with an aperture termed large aperture, by selectively etching the intermediate layer, the top layer masking against said etching treatment, the intermediate layer being removed from the aperture in the top layer to below the top layer over a distance which is larger than the thickness of the intermediate layer.

134789. Void.

134790. Void.

MARCH 2

134791. Bayer Aktiengesellschaft, formerly known as Farbenfabriken Bayer Aktiengesellschaft. Purification of kallikreintrypsin inhibitors. By comprising adsorbing the kallikreintrypsin inhibitor on a non-ionic porous cross linked copolymer of styrene and divinylbenzene, separating by washing with water the remainder of the mixture from the resin and eluting the inhibitor from the resin with an aqueous water mixable organic solvent.

134792. Bayer Aktiengesellschaft formerly known as Farbenfabriken Bayer Aktiengesellschaft. Process for the vulcanisation of rubber. Heating to 100 to 300°C a mixture of rubber and a bis-(2-benzthiazole-dithio)-N, N′-piperazine.

134793. Joseph Lucas (Industries) Limited. Electric switch contacts. (March 5, 1971). Comprising plurality of contact, having a stem and a head having first and second faces forming an acute angle and a edge perpendicular to stem axis, said contacts being mounted on a base and a contact arm pivotally mounted on said edge.

134794. Pechumey Ugine Kuhlmann. A method for the manufacture of a gas mixture suitable for the production of sulphuric acid and apparatus therefor. Passing a stream of liquid sulfur under pressure through an orifice into a stream of primary combustion supporting gas to form a coarse spray, passing the coarse spray through a constriction zone co-axial with the orifice and axis of the cumbustion chamber, the primary combustion supporting being set into turbulent motion before entering the constriction zone and introducing the fine spray from the constriction zone into a conical space formed by an adpacent conical and wall of the combustion chamber, secondary combustion supporting gas being introduced along the lateral walls of the chamber.

134795. James Harding Vowles. Chair. Having seat, knee support and a lateral arcuate foot support. the seat commencing at a rear edge and terminating at a front edge spaced apart from the knee support, the seat, knee and foot supports cooperating with each one another so that when the person's posterior rests on the seat and his knees rest on the knee support the persen may shift a portion of his weight into the knee support.

134796. Void.

134797. Void.

134798. Sur Extinguishers Corporation. Improvements in or relating to fire extinguishers. Characterised in that the diffusion duct is fitted with a means whereby a disturbance is created in the powder mass when the pressure container is released for discharging the extinguisher.

134799. Snam Progetti S. p. A. Method for inhibiting the polymerization of conjugated dienes. Characterised by the presence of at least 50 ppm of a halogen containing benzoquinone derivatives as a polymerisation inhibitor.

134800. Farbwerke Hoechst Aktiengesellschaft vormals Meister Lucius & Bruning. Process for the preparation of polyolefins. Comprises carrying at the polymerization by means of a mixed catalyst, the component A of which has been formed by reacting a magnesium alcoholate with a tetravalent halogen-free titanium alcoholate and an acid halide of an element of groups III to VI of the Periodic Table.

134801. Void.

134802. Diamond Shamrock Corporation. Herbicidal compositions comprising pyrrolidinyl-carboxanilides and thiocarboxanilides. A method for regulating plant growth and more particularly to a process of applying to the locus of the unwanted plant growth such as weeds, a phytoxic amount of a pyrrolidinyl-carboxanilide or thiocarboxanilide.

134803. Diamond Shamrock Corporation. Herbicidal compositions comprising pyrrolidinyl-carboxanilides and thiocarboxanilides. 1-(cis-2, 5-dimethylpyrrolidinyl)-2′-flurocarboxanilide, its use in herbicidal compositions and more particularly to the compound, synthesis, and its use in controlling plant growth of weeds or the like.

134804. Cognate with application No. 134802.

134805. Cognate with application No. 134802.

134806. Franz Plasser Bahnbaumaschinen-Industrie-gesellschaft m.b.H. Improvements relating to mobile railway track levelling and tamping machine. A stretched wire datum system, cooperating with a sensor device, is arranged extending between that section of the track which has already been corrected and the section of the track to be corrected.

134807. Void.

134808. Void.

134809. Void.

134810. Globe-Union Inc. Industrial-type variable speed centrifuge. Comprising an auter shell with removable cover and support means or basket for the load to be centrifuged, the support means being rotatably mounted within the shell and accessible through the aperture.

134811. Void.

March 3

134812. Void.

134813. Solvay & Cie. A process for the preparation of solid catalytic complexes basedon $TiCl_3$ for the polymerization of α -olefins. Preparation of catalytic complexes for the polymerisation of α -olefines comprises reducing $TiCl_4$ by an aluminium compounds, the reduced solid is treated with a complexing agent, and is then reacted with $TiCl_4$.

134814. Universal Oil Products company. Self-Adjustment for body support cushion. At least one small bleed in orifice through a portion of the valving means, and an orifice closing member adapted to engage with and close said orifice to outward flow of air under the influence of super ambient pressure within the envelope and disengage from the open said orifice to inward flow of air under the influence of sub-ambient pressure within said envelope.

134815. Void.

134816. Johnson & Johnson. Method of making settable plaster of paris composition. A method of making settable plaster of paris compositions comprising despersing through said plaster of paris while in a non-hydrated state or thermoplastic heating the above composition to a temperature above the melting temperature of said resin and thereafter cooling the mixture to a room temperature.

134817. Void.

134818. Oak Electro/Netics Corporation. Security System with means for subscriber control. Comprising detection means, switch means, time delay means, means for placing time delay means in circuit with detection means.

134819. Bituminous Coal Research, Inc. Gasification of carbonaceous solids. By contacting recycle char in a gasification zone with superheated steam and oxygen.

134820. Void.

March 4

134821. Colgate-Palmolive Company. Process for preparing stable dentifrice. Comprising adding a water-soluble non-toxic and addition salt of 1. 6- di- (p-chlorophenyl biguanido) hexane to a blend of alkali metal carboxy alkyl cellulose, a humectant, water and water soluble surface active agent and also mixing with these components a dentally acceptable water-insoluble polishing materials.

134822. Void.

134823. Leningradsky Ordena Lenina Politekhni Chesky Institut Imeni M. I. Kalinina and Leningradsky Ordena Trudovogo Krasnogo Znameni Zavod "Elektrik" im. N. M. Shvernika. Programmer for successive timing of working cycles in apparatus controlling industrial units. Comprising a principal decimal counter arranged to count durations of time intervals, a further decimal counter arranged to count the member of repeated time intervals within one repetition cycle, a principal distributor of current control pulses having a current pulse shaper, switching units for setting the required durations of successively time intervals, the programmer of the invention including a further distributor of control current pulses, incorporating two groups of current pulse shapers.

134824. British Steel Corporation. Improvements in steel making. (March 5, 1971). Comprises injecting oxygen into a molten steel charge detecting the minimum weight condition of the charge continuing oxygen injection and ceasing oxygen injection after the selected quantity of oxygen has been injected.

134825. C.E.S. (Grinding Machines) Limited. Improved grinding machine. Comprising workpiece support base column guide means supporting a carrier for carrying the grinding wheel and workpiece conveyor and retention means.

134826. The Metal Box Company Limited. Improvements relating to articles having arcuate perimeter regions. (May 4, 1971). Containers each having a substantially cylindrical exterior surface with an indentation or recess formed therein, the disposition of the said indentation or recesses relative to the said surfaces of all the said containers being identical.

134827. Preformed Line Products Company. Cathodic protection apparatus. Includes sacrificial anode means comprising a metal of a composition of a lesser mobility than that of metal body and formed for application about said body and elongated helically preformed rod means for wrapping about the sub-assembly in tightly encircling relation therewith.

134828. Preformed Line Products Company. Vibration damper. Comprising rod means, a pair of weight and a pair of helically preformed dead-end appliances each having a pair of helical leg portions extending in a like direction and an intermediate bight portion.

134829. Ravizza S. A. Process for the preparation of a 7-chloro benzodiazepine. (March 5, 1971). Comprising cyclizing-2-chloroacetamido benzophenone with ammonia in the presence of dimethyl sulfoxide and the product obtained is chlorinated in 7-position with chlorine in the presence of nitro-benzene.

134830. Ravizza S. A. Process for the preparation of 7-chlorobenzodiazepine derivatives. (March 5, 1971). Comprising chlorinating the corresponding benzodiazepine with elemental chlorine in the presence of nitrobenzene.

134831. David Lincoln Rowland. Assemblies of seats and backs usable in furniture, automobiles and other transport vehicles. Comprises a series of continuous sinuous spring metal wires and a thin sleeve-like plastic coating surrounding said wires whereby said wires and plastic coating comprise a unitary assembly.

134832. Johnson & Johnson. Method of improving gypsum-cast forming compositions. A method of rendering a gypsum cast forming composition bacteriostatic and wettable and of accelerating the hydration process of said composition when contacted with water characterizing by admixing into said composition a medically acceptable quaternary ammonium compound in an amount from about 0.025 to about 1.5% by weight based on the weight of gypsum.

134833. Scientific Instruments. Distillation apparatus. Characterised in that there is provided a heating unit comprising a heating element encased in a tubing of quartz or fused silica with a heat resistant standard ground glass male joins provided near the upper end of the tubing at the upper end of which is fitted an electrical socket, the standard ground glass male joint of the heating unit corresponding to the ground female joint in any of the necks around the central neck to enable the heating units to be fitted into the flask to heat the liquid.

134834. Shiu Shankar Chandak. A device for cutting waste yarn on a flanged bobbin. Characterised in that it consists of a pair of cutting knives a hand lever operating the said pair of knives through a toggle lever, the two arms of said lever being provided with knife holding blocks with said knives removably fixed thereto.

134835. Council of Scientific and Industrial Research. Device for increasing the speed of bicycles. Comprising an axle, a composite hub freely mounted on bearings on the axle, a hub drum fastened on the composite hub an epicyclic gear train consisting of an annulas freely supported on bearings inside the hub drum and a sun wheel which is fastened on the composite hub and planet gears freely mounted on bearings on a planet supporting level and mate with own wheel and annulars.

134836. Void.

134837. Void.

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134838. Void.

134839. Westinghouse Electric Corporation. Semiconductor devices. Comprising a body of silicon oxide doped with at least one divalent material, which comprising from 0.1% to 20 per cent volume of the body of silicon oxide and the latter being disposed on at least a portion of at least one surface of a body of semiconductor material.

134840. Shell Internationale Research Maatschappij N. V. Process for the removal of soot from aqueous suspensions thereof. Where in the suspension is connected in a mixing stage with one or more light hydrocarbons while being vigorously stirred, a dispersion of soot agglomerates and light hydrocarbon in water being formed the said dispersion is then contacted in a separation stage with a stationary phase of one or more light hydrocarbons.

134841. Chemie Linz Aktiengesellschaft. Process for the preparation of a composition for incluencing the growth and metabolism of plants. Comprises eposidizing naturally occurring mixture of esters of unsaturated fatty acids or the isolated and mixing the active ingredient with one or more liquid or solid extenders or diluents.

134842. Tenco Brooke Bond Limited. Process for the preparation of an instant tea composition and tea composition prepared thereby. (March 9, 1971). [Addition to No. 118512]. Comprises disintegrating green leaf, mixing the disintegrated leaf with water in a fermentation vessel, adding hydrogen peroxide solution to the resulting suspension at a constant rate while monitoring the concentration of dissolved exygen in the suspension, stopping the addition of hydrogen peroxide solution when a sudden rise in the concentration of dissolved oxygen is observed.

134843. Void.

134844. Void.

134845. Raghbir Singh Bir. Dual direction lubricating pump. Comprising with a cylindrical valve ring with interconnect suction zone and pressure zone inlet and outlet ports and stop pin.

134846. Omnico Systems International, Inc. Prefabricated building construction. Comprising prefabricated panels formed with inner and outer skins having thermally insulated material therebetween groove sockets and interlocking means having projections and recesses.

134847. Ruhrkohle Aktiengesellschaft. A process for the removal of hydrogen sulphide and ammonia from other gases and/or water. Treating the residual gases of chemical or petro-chemical processes with a solvent containing an arsenic, antimony or tin compound as catalyst.

134848. Jagat Punjabhai Palkhiwala. Differential mechanism. Mechanism comprising an external gear adapted to be rotatably mounted on an accentric pin integral with or secured to a first shaft, an internal gear meshing with the external gear and adapted to be rotated with a second shaft, external gear and the third shafts are connected with an intermediate member.

134849. Void.

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134850. Void.

134851. Void.

134852. Koramangala Nanjappa Sundara Rama Reddy. Improve reversible variable capacity sliding vane pump-motor. Comprising intermediate ports between the two suction and two delivery ports and the vanes being spring loaded and recessed.

134853. American Cyanamid Company. Electrochemical current producing cell. Characterized in that the metal components of positive electrode in surface contact with anhydrous liquid electrolyte consist essentially of valve metal with a passivating surface film of the valve metal.

134854. Zimmer Aktiengesellschaft Planung und Bau von Industrieanlagen. Process for the production of regenerated polymeric material. Waste products being commuinuted, widened out to form a fleece material, the said material is then washed, squeezed, loosened, dried and moistened with a conventional lubricant after which it is mechanically compressed and granulated.

134855. Dr. Shyam Sundar Ghose. Process for making of zircon base abrasion resistant grinding media. Comprises mixing finely powdered zircon sand as obtained in nature, fluxing agent and a bonding agent, forming the mixture into balls or other desired shapes, drying and firing the same between 1420 to 1480°C.

134856. Telefunken Patentverwertungsgesellschaft M.B.H., and Teldec-Telefunken-Decca Schallplatten G.M.B.H. A pickup for scanning a carrier along a predetermind track. [Divided out of No. 127212; ante dated to July 27, 1970]. Characterised in that the transducer is a thinckness vibrator which in the direction of the reaction force has a thickness which is less than half the wavelength of a mechanical oscillation of the upper limit frequency of the transmission range, extending in the transducer.

134857. Telefunken Patentverwertungsgesellschaft M.B.H. and Teledec-Telefunken-Dacca Schallplatten G.M.B.H. A pickup adapted for playback of signals stored in a carrier. [Divided out of No. 127212; ante dated to July 27, 1970]. Wherein the engagement portion is maintained substantially stationary with respect to the general plane of the record carrier in the direction of action of engagement portion on the carrier and a transducing portion which transduces variations of pressure applied to the engagement portion in to electrical signals, means being provided for rigidity holding the pick-up to tonearms of playback system.

134858. Robert Elisha Drake. Molding apparatus and method for the production of shaped reinforced plastic or resinous products. Comprising molding apparatus adapted for embedding a for aminous reinforcing material in a curable or settable or synthetic resinous mass in position upon a mold having an upwardly bulging mold surface comprising the mold and a force delivery member having means for contacting the reinforcing material, the means extending from the member and providing a series of working force points or force lines corresponding to a series of points.

134859. Mefina S. A. Sewing machine. Comprises a base, a column an upper arm ending in a needle-bearing head, a lower portion containing a feed dog and its actuating mechanism.

134860. Universal Oil Products Company. Hydrocarbon separation process. Characterized by (a) maintaining a buffer zone immediately upstream from desorption zone which is located between the desorbent inlet and raffinate outlet; (b) passing at least a portion of the raffinate from said adsorption zone into said buffer zone and (c) periodically advancing through said column of adsorption zone, said adsorption purification, desorption and buffer zones to continuously separate feed into extract and raffinate.

134861. Stamicarbon N.V. Process for the polymerisation of α olefins. Polymerizing in a liquid phase in the presence of an organo aluminium activator compound with the aid of a catalyst obtained by reacting an aluminium halogen compound with an organo magnisium compound, mixing the mixture thus obtained with at least one transition metal compound.

134862. Shantibhai Ambalal Patel. Shell moulding machines. Comprising a platform on one side which there is a portable heating furnace supported by counter balanced swivelling arms the furnace can be placed over a swivelling pattern frame, the pattern frame is supported by a pair of swivelling arms pivoted to the side of a rotatable dump box, a handle or other means is provided to turn the pattern frame to close over the dump box, a locking lever is provide to lock the pattern frame over the dump box in the inverted position of the dump box and the dump box is provided with a pneumatic vibrator.

134863. Richter Gedeon Vegyeszeti Gyar R.T. Process for the preparation of racemic and optically active 1-(2, 5-dichlorophenoxy)3-Test butylamino-2-propanol and the salts thereof. In which 1-(2, 5-dichlorophenoxy)-2, 3-epoxy propane is reacted with test, butylamine and if desired the free base obtained by the above process is converted in a known manner.

134864. I.W.S. Nominee Company Limited. Process for improving the flame-resist properties of polyamide fibres. (March 18, 1971). Comprises applying to the fibres an anionic complex of zirconium with an organic chelating compound or with fluoride ions.

134865. The Wheelabrator Corporation. A blade for use with a centrifugal blasting wheel. [Divided out of No. 130172; ante-dated to February 3, 1971]. Comprising a throwing surface, a side wall extending above on each side of the throwing surface, normally positioned toward the centre of wheel when the blade is mounted in a wheel to a point intermediate the length of the blade.

134866. Void.

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134867. Void.

134868. The Textile Appliances & Instruments Company Private Limited. Device for separating lint from non-lint in textile fibres. Comprises means for opening and spreading textile fibres, a wire mounted cleaning cylinder a pair of feed roller a V-shaped deflector, a trash box, a casing for the cylinder deflector second feed roller and partially the first feed roller.

134869. Void.

134870. Void.

134871. **Shell** Internationale Research Maatschappij N.V. Butadiene recovery process. Characterised in that introducing a fat solvent recovered from an extractive distillation zone into a first stripping zone, recovering a butadine enriched vapour a portion of which is returned to the extractive distillation zone and another portion into a second stripping zone, after compression.

134872. Universal Oil Products Company. Regeneration of a coke-deactivated catalyst comprising a combination of platinum, rhenium and halogen with a porous carrier material. [Addition to No. 125840]. Process for regenerating a deactivated hydrocarbon catalyst comprising a combination of platinum, a rhenium and halogen component with an aluminium carrier material comprising (i) contacting the deactivated catalyst with a first and second gaseous mixture successively consisting essentially of C_2, H_2O and halogen (2) purging oxygen and water from contact with the catalyst from the previous step with an inert gas stream and (3) subjecting the catalyst resulting the step (2) with water free hydrogen at about 400°C to 600°C.

134873. Imperial Chemical Industries Limited. Electrodes for electrochemical processes and method for the manufacture of such electrodes (March 18, 1971). Comprises a support member and a coating thereon consisting of a mixture of the at least one platinum group metal oxide in a proportion of 20-80% by weight and a film forming metal oxide and superimposed on that a layer of film forming metal oxide.

134874. Imperial Chemical Industries Limited. Electrodes for electrochemical processes and method for the manufacture thereof (March 22, 1971). Comprises a support member having a coating thereon which consists of a mixture of (a) ruthenium dioxide not less than 17 by weight (b) titanium dioxide not more than 50% by weight and (c) one or more of tin dioxide, germanium dioxide and oxides of antimony in the range 1 to 80% by weight and the weight ratio of (a) : (b) is less than 2 : 1.

134875. R C A. Corporation. A lead assembly. Comprising an outer frame, a central semiconductor chip supporting pad and a plurality of lead fingers, the said chip supporting pad and at least terminal portions of said lead fingers being non-coplanar.

134876. Westinghouse Electric Comporation. Improved spaced-Metallic-Plate-Type of Arc-Chute for a switch. Comprising separable arcing contacts pair of separable main contacts an arc chute having plurality of spaced plates having slot accommodating the main as well as arcing contacts, defined by inner edges.

134877. Hydrocarbon Research Inc. Two stage countercurrent hydrogenation of coal. In the process of an ebullated bed of hydrogenation catalyst particles, the improvement which comprises effecting the hydrogenation in first and second stage ebullated bed reaction zones, the catalyst used in the first stage zone being catalyst which has become partially spent in the second stage zone.

134878. Void.

134879. Schlumberger Overseas S. A. Electric well logging apparatus. Includes a system of electrodes distributed longitudinally inside probe. said system comprising a central electrode and four pairs of electrodes, respectively short circuited circuit means for producing alternating current of frequencies F_1, F_2 between different electrodes specifically chosen an amplifier unit, and indicating device. wherein means are provided for establishing at the frequency f_2.

134880. The Dow Chemical Company. A static mixer element and a method for the preparation thereof. Interfacial surface generator comprising a hollow tubular conduit to form a first baffle of plate-like elements of similar construction to the first baffle and disposed adjacent to the second baffle and remote from the first baffle, and the plate-like elements having the same angular relationship relative to the axis of the conduit as the first baffle.

134881. N. V. Philips Gloeilampenfabrieken. Semiconductor device and method of manufacturing same. Characterised in that between the first buried layer and the semiconductor layer a second buried layer of the first conductivity type is present and that the region of the semiconductor layer is divided by a part the inset pattern of insulating material which is separated from the first buried layer by at least a part of the thickness of the second buried layer, first is land shaped region in which semiconductor circuit element is provided.

134882. Norton Company. Grinding wheels, Having an abrasive section consisting of predominatly polycrystalline diamond abrasive grains bonded in a metal matrix.

134883. Void.

134884. Virendra Singh Kamboj. Locking system for doors. The plate fitted at the outside of the door panel has lugs which occupy recesses in the panel and the screws are fitted to the plate at the inside of the panel said screws living in threaded engagement with the lugs.

134885. Heinrich Wigger & Co., Chopper (Chipping Machine) for the crushing, particularly, of raw material of small cross-section, such as wood waste (Chips of Wood) and similar material. Characterised in that chute, feed and guiding means, advance guiding means, chute knife.

134886. Void.

134887. Hari Krishan Syal. An improved method of connecting the lead or pig tail to the carbon brush. Which consists in the forming two holes in communication with each other with carbon block and introducing the lead with one and a metallic conducting powder through the other holes.

134888. Void.

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134889. Girling Limited. Improvements in and relating to sliding caliper disc brakes. Comprising a rotatable disc, a torque plate member for fixing to a vehicle frame stradding a minor portion of the periphery of the disc for moving friction pads disposed on opposite sides of the disc into braking engagement into the disc.

134890. Girling Limited. Improvements in and relating to sliding caliper disc brakes. (March 9. 1971). Comprising rotatable disc, a torque member with sliding means a caliper member, friction pads, motor means, fastening means.

134891. Rohm and Haas Company. Method of producing a crushed foam coated substrate and substrates so produced. A method of producing a crushed foam coated substrate which comprises (a) coating the substrate with a polymeric latex foam (b) partially drying a foam (c) crushing the partially dried foam (d) plating or embossing the crushed foam covered substrate and (e) drying and curing the plated or embossed crushed foam.

134892. Dorr-Oliver Incorporated. Pumping system. Pressure operated diaphragm pumps as well as pumping systems embodying a diaphragm pump, wherein the pumping stroke is effected by fluid pressure admitted to the opposite side of the diaphragm while the return stroke may be effected either by gravity filling of the pump chamber or by the application of vaccum alternating with the fluid pressure. acting upon said outer exposed side of the diaphragm.

134893. Usha Kishore Asar. A weighing machine. Comprises a lever provided with a receptacle at one end and with a counter weight fixed at the other end the lever being supported on a symmetrical piece as a fulcrum.

134894. Krka Tovarna Zdravil.. Process for preparing 7-chloro-1-methyl-5-phenyl-2, 3-dihydro-1H-1, 4-benzodiazepine-2-one. 2-(2-halo-N-methyl-acetamido)-5-chlorobenzophenone is cyclisated with dinitrosopentamethylene tetramine.

134895. Void.

134896. Johns-Manville Corporation. Pipe Joint. Including a bell end of a pipe having an inwardly facing annular groove. a spigot end of a pipe having an untapered axial extremity for telescoping with the bell end, and a resilient annularly shaped gasket having a rear portion disposed in the annular groove of the bell end. and a resilient annularly shaped gasket adapted for use in filling the annular space between a bell end of a pipe and a telescoping untapered spigot end of another pipe for establishing a seal there-between.

134897. Sreemati Sunanda Bhattacharya. An apparatus for lowering mercury level of clinical thermometer. Comprising a shaft, means to hold and rotate the shaft being provided at one end. a holding means provided near the said means to hold the thermometer.

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134898. Union Carbide Corporation. Boron nitride containing vessel having a surface coating of zirconium silicon. [Addition to No. 118635]. Vassel comprising about 20 and 80% by weight of boron nitride and compatible refractory material, said vassel having a portion coated with zirconium silicon alloy.

134899. Colgate-Palmolive Company. Method of preparing stable dentifrice. Comprising adding a water-soluble non-toxic acid addition salt of 1, 6-di-(P-chlorophenyl biguanido) hexane and water to an alkali metal carboxyalkyl cellulose and a humactant then adding a surface active agent to form gel and then adding to said gel a dentally acceptable water insoluble polishing material.

134900. Colgate-Palmolive Company. Stabilized dentifrice. Comprising 1, 6-di-(P-chloro-Phenyl biguanidohexane) a dentifrie while comprising solides and liquids and containing flavoring oil phosphate ion, stabilising agent ethanol.

134901. Colgate-Palmolive Company. Stable dentifrice. Comprising 1, 6-di-(P-chloro-phenyl biguanido) hexane, in an amount to provide about 0.01-5% by weight of the free base, a dentifrice vehicle comprising solids and liquids and containing about 0.015-2% by weight of phosphate ion and flavoring oil and water soluble alkaline earth metal salt of a strong acid.

134902. Dunlop Limited. Improvements in or relating to power transmission, conveyor and vehicle tract belts. (March 11, 1971). A joint comprising abutting ends both above and below the neutral axis of longitudinal bending of the belt, and a flexible jointing ply located between the said abutting ends and lying along the neutral axis, said ply having a tensile strength equal to that of the uncut belt.

134903. Zaidan Hojin Biseibutsu Kagagu Kenkyu Kai. Process for the production of new pep-stating having antipepsin activity. Containing C_5-C_{16} fatty acid moity such as n-caproyl or iso-caproyl at N-terminal and their alkali metal salts and lower alkyl esters which comprises cultivating a pepstatin producing strains, *Streptomyces testacens* ATCC No. 21469 or *Streptomyces argenteatus* Var. toyonalcensis ATCC No. 21468 in a nutrient medium.

134904. Nippon Kayaku Kabushiki Kaisha. Process for preparation of N-thiourea derivatives. Comprises reacting thisemicarbazide with formaldehyde.

134905. Raytheon Company. Heat exchange structure. [Divided out of No. 129022; ante-dated to October 27, 1970]. The conduit comprising a plurality of elongated conduit portions spaced around the central plenum and the termally conductive structure rigidly inter-connecting the conduit portions, a burner disposed within the central plenum, and a burner connected to the burner and arranged for supplying a mixture of fuel and air thereto.

134906. Canadian Patents and Development Limited. System for determining amount of an element dissolved in a molten metal. [Divided out of No. 129[illegible]15; ante-dated to November 12, 1970]. Comprising an elongated compact formed by a pressure compacting and sintering technique from a free flowing intimate mixture in the fine granular form of a solid oxide electrolyte and a fugitive binder, said compact including a beaded wire-accepting depression exially thereon.

134907. Void.

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134908. Orissa Cement Limited. Process for manufacture of concrete articles. Comprises forming an intimates mix of cement aggregates with silica grog and water wherein the aggregates contain a minimum of 40% by weight of silica grog.

134909. Orissa Cement Limited. Benefeciation of magnesite. Comprising placing the magnesite particles in a drum, cylinder with or without grinding media (balls or bars), wherein the said drum is subjected to a rotary or vibrating motion.

134910. Haarmann & Reimer Gesellschaft mit beschrankter Haftung. A process for the production of aromatic hydroxyaldehydes. A hydroxy aryl glycolic acid is simultaneously oxidized and decarboxylated at a more acid pH valve than 5

134911. Void.

134912. Void.

134913. Morton Norwich Boducts Inc. Process for the prepartion of 1-(substituted benzyl) -2-(1H) pyrimidones.

134914. Rotablock Limited. Block for use in the construction of a suspended roof or wall system. (April 28, 1970). [Divided out of No. 131053; ante-dated to April 20, 1971]. Characterised in that it is of generally rectangular configuration having one end face downwardly and inwardly inclined, and its opposite end face downwardly and outwardly inclined and means extending from its upper face carrying front and rear suspension members at least one of said members being arranged so as to be capable of pivoital arrangement with a subsidiary member of a roof or wall system.

134915. Void.

134916. Void.

134917. The Gujarat Rubber Works Ltd. Improvement and modification in the method of manufacture of rubber cork, or stopper, or like and a mould therefor. Comprises two complimentary parts the upper and lower mould plates in which two complimentary cavities are formed wherein the raw material is fed to said complimentary upper cavities through passage way means applying pressure on said upper mould plate, heating the mould to culcanise the material.

134918. Void.

134919. Council of Scientific and Industrial Research. A strain gauge breathing transducer. Characterized in that the strain gauge is coupled to a diaphragm clamped at its. Periphery to a housing called gauge housing whereby the diaphragm of the strain gauge breathing transducer being placed directly touching the pulsating organ for pulse rate recordings.

134920. Peter Aloysius Dunbar. A mechanism to fill bags with hot liquifiable material. Comprises a bottomless canister being freely rotatable about a pair of horizontally aligned pivots, a conveyor and an empty bag being placed in the canister with its bottom resting on the conveyor.

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134921. Void.

134922. Void.

134923. Bayer Aktiengesellschaft, formerly known as Farbenfabriken Bayer Aktiengesellschaft. Process for the production of new unsymmetrical 1, 4-dihydropyridine dicarboxylic acid esters. Reacting ylidene- β -ketocarboxylic acid ester with enamino-carboxylic ester.

134925. Bayer Aktiengesellschaft, formerly known as Farbenfabriken Bayer Aktiengesellschaft. New Esters, their production and their medicinal use. Condensing ylidene- β -ketocarboxylic acid ester with enaminocarboxylic acid ester.

134925. Bayer Aktiengesellschaft, formerly known as Farbenfabriken Bayer Aktiengesellschaft. Process for the production of unsymmetrical 1, 4-dihydropyridines. Reacting an aldehyde with a β -ketocarboxylic acid ester and an enaminocarboxylic acid ester.

134926. Guthrie Industries (UK) Limited, formerly known as Guthrie Industries Limited. Process and apparatus for forming layers of setting plastics materials. Comprises continuously mixing the components of the mix, passing the mix through an extended slit—shaped die orifice and on to a receiving surface.

134927. Void.

134928. Void.

134929. Siemens Aktiengesellschaft. A pulse-width modulated inverter and method for producing control signals for the same. Comprising control means including means for providing reference signal of periodic configuration, means for creating a member of d.c. signal levels, means for creating control signals for the inverter and means for controlling said d.c. signal levels as a function of common control signal.

134930. The Dow Chemical Company. Apparatus for delivering and compacting particulate material into a container. An apparatus for delivering and compacting particulate material into a container which comprises (a) a vertically oscillatable butt is at least a portion of which tapers in cross-sectional area from the base to the top thereof. and (b) a support means attached to the butt including means for attaching and aligning the butt at a distance from the discharge opening of a delivery conduit so that the top of the butt faces the open end of the delivery conduit, and the longitudinal axis of the butt is aligned with the longitudinal axis of the discharge end of the delivery conduit.

134931. Izyaslav Borisovich Peshkhov and Viktor Timofeevich Pivnenko. Electric wire and a measuring instrument sensitive element made of this wire. Current carrying core of a metal with paramagnetic susceptibility is provided, throughout its length, with at least one layer of a material with diamagnetic susceptibility disposed in a particular way.

134932. Void.

134933. Void.

134934. Void.

MARCH 15

134935. Void.

134936. Union Carbide India Limited. Pneumatic wind direction transmitter. Comprising a wind vane, a cylindrical coin attached to shaft of said vane, the vertical axes of the vane and the shaft coinciding, lower edge of the cyinder well.

134937. N. V. Meubelfabriek 'Deco'. Improvements in or relating to kits for assembling for example a piece of furniture, a partition or toys from panels and strips. Characterised in that the existing part of the open sides consists of two hook flanges facing each other, one long side of one tube is located in the median plane of the long side of the other tube, and the length of the side flanges of the sleeves does not exceed half the length of the main flanges.

134938. Void.

134939. Void.

134940. Void.

134941. Void.

134942. Void.

134943. Void.

134944. Void.

134945. Void.

134946. Void.

134947. Japan Foods Storage & Packaging Co., Ltd. A method for packing free-flowing granular or powdered materials into a tightly sealed shaped form and the type of packages resulted therefrom. Characterised in that free-flowing materials are grains, beans or flours thereof being able to absorb carbondiosice and the air in the plastic bag is substituted by carbon dioxide before the opening of the bag being sealed.

134948. The Western India Plywoods Ltd. A method of manufacturing jointless filter flates and/or jointless filter frameworks for use in filter presses and filter plates and/or frameworks manufactured by said method. Assembling densified wood based plastics laminates in a mould according to their grain configuration, pressing the assembled laminates at a predetermined pressure and temperature for a predetermined time to form a compact block of a predetermined thickness; and machining said compact block to form jointless filter plates and/or filter frameworks of a predetermined profile and shape suitable for use in all type of filter presses.

134949. The Gillette Company. Improvements in or relating to razors. Including an elongated grip portion a support portion incorporating interconnecting means, said interconnecting means being adapted to receive a razor blade unit.

134950. The Gillette Company. Disposable razor blade unit. Comprises one or more elongated blades, elongated coupling elements said elements being adapted to cooperate with complemental coupling elements on a razor handle for securing the blade unit on the handle.

134951. The Gillette Company. Package for razor blade units. Including at least one razor blade and a coupling structure for connection to a handle said package incorporating at least one open top chamber means within in said chamber after releasably retaining a blade unit.

134952. Dunlop Holdings Limited. Pneumatic tyre and wheel assemblies. (March 16, 1971). [Addition to No. 131738]. Comprising a wheel, annular substantially axially-outwardly extending rim of the wheel adjacent to each bead seat and forming faces.

134953. Bharat Nandlal Sheth. An ash tray. Comprising a base and a lip, the lip enclosing a well which hold the ash.

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134954. Void.

134955. J. K. Chemicals Limited. A process to recover metallic zinc dust in substantially pure form from materials containing zinc compounds. Heating in an electro-thermal furnace the materials with carbonaceous materials alone or with a metal carbide and/or ferro-silicon alloy to a temperature in the range of 900-1200°C and collecting gases containing zinc vapour and carbons monoxide issuing from furnace through a duct into a condensing apparatus

134956. Union Carbide Corporation. Process for the production of ferrosilicon alloys. Forming homogeneous agglomerate from mixtures of a particulated carbonaceous reducing a gent a particulated iron bearing material and particulated silica and heating in the electric furnace.

134957. National Patent Development Corporation. Process for improving the durability and weather resistance of exposed surfaces of inorganic building material. Comprising the steps of applying an impregnating the surface with water insoluble hydrophilic polymer to form a moisture vapour permeable coating thereon.

134958. Joseph Lucas (Industries) Limited. Electric switches. (March 20, 1971). Comprising a body, a switch actuating mechanism selectively moveable within the body, a contact arm engaging said mechanism and a pair of contacts on the body, said arm having integral projections intermediate its ends, said projections being further providing a pair of pivots for said arm to engage said pair of contacts.

134959. Void.

134960. Australian Wire Industries Proprietary Limited. Apparatus for cooling coatings on moving wires, strips or other continuous lengths of materials. (March 16, 1971). Comprising a liquid discharge passage or passages for forming a jet of cooling liquids intersecting the line of movement of the wire and having a height substantially greater than its width.

134961. Void.

134962. Sigma-Tau Industrie Farmaceutiche Riunite S.P.A. A device for separately containing two products particularly medicinals and allowing the immediate mixing thereof on use time. Comprising in combination, a container a receptacle shaped plug and means for causing on control the breakage of the bottom of said receptacle.

134963. Council of Scientific and Industrial Research. Improvements in or relating to the production of printed circuits. Applying a film of sensitized photo emulsion on a plastic sheet, exposing the film to a printed circuit developing the exposed film, fixing it on a silk screen, drying and peeling off the plastic sheet, thereby retaining the developed printed circuit on the silk screen in the image of a stencil, placing a copper clad sheet under it. applying printing ink on the stencil whereby printed circuit pattern is transferred on copper clad sheet.

134964. Council of Scientific and Industrial Research. Improvements in or relating to the manufacture of garlic Powder. Characterised in that the separated papery husk, soots and cloves are classified into individual fractions by pneumatic mechanical means employing an aspirator.

134965. Void.

134966. Void.

134967. Nandlal Jivraj Mehta. Improvements in or relating to containers. Characterised by a casing, a detachably fitted cap for the casing, a lower container having a bore and being insered in the casing, an upper container, provided on the top of the lower container, the bottom of the upper container being detachably fitted to the top of the lower container, a detachably fitted cap for the mouth of the upper container.

134968. Imperial Chemical Industries Limited. Fuse cord. (March 17, 1971). Comprises an explosive core and an outer layer of elastomeric material formed with external ribs.

134969. Void.

134970. Uss Engineers and Consultants, Inc. Apparatus for determining the true temperature of a surface from the radiation emitting from the surface. Comprising a first and second radiation detector having known error characteristic and means for combining the signals from than to provide a signal representative of the true temperature.

134971. Sealed Air Corporation. Method and apparatus for the manufacture of cellular material for cushioning and other purposes. Comprises continuously moving a sheet of plastic by roller having an adhesive coating on the sheet over a temperature controlled embossing roller, moving the heating means to heat the sheet, embossing said sheet with the activating adhesive coating exposed and then adhering a second sheet of material over the embossed sheet.

134972. Void.

134973. Etat Francais. Propulsive compositions. A propulsive composition comprises ammonium nitrate and nitrocellulose.

134974. Vsesojuzny Nauchno-Issledovatelsky Institut Khimicheskikh Sredstv Zaschity Rasteny. Method for preparing substituted benzimidazoles, 2-aminobenzimidazole is reacted with 4-nitrophenoxyacetylisocyanate.

134975. Wilhelm Stahlecker G. m b. H. Break-or open -end spinning rotor or turbine. Which rotates in a housing under vacuum, one wall of the housing being provided with a bore wherein the rotating parts in association with the parts surrounding them constitute air flow controlling device.

134976. Nippon Kokan Kabushiki Kaisha. Method for controlling the amount of silicon contained as an impurity in high carbon ferrochromium. Comprises selecting a silicon contains for said ferrochromium between about 0.5 to 9 per cent by weight providing a material mixture by mixing raw chromium ore and with an amount of other raw material rich in oxide and smelting said mixture charged in a submerged arc furnace in presence of reducing agent.

134977. Ramdas Laxman Paranjpe. An improved operation table top raising and lowering device. Comprises a horizontally positioned capstain wheel, a square threaded shaft, a thrust bearing and a collard guide bush positioned and held at the top of the hallow material pipe of the pedestal.

134978. Council of Scientific and Industrial Research. A strain gauge blood pressure transducer. Comprising a strain gauge cemented on a diaphragm separating a pressure housing adapted to be connected to an artery from a gauge housing the leads from the strain gauge being connected to an electrical recording system.

134979. Jayant Narayan Kardile. Filter chambers with the use of crushed coconut shell media. Filter chambers with the use of crushed coconut shell media in single, duel and multimedia chambers for the purification of water.

134980. Vysoke Uceni Technike. of Brno, Czechoslovakia, a national corporation organised under the laws of Czechoslovakia. Fuel injection pump of the piston type for internal combustion engines. Comprising a spring loaded piston within a body, a cam to cause upward movement of the said piston.

134981. The Director, Central Power Research Institute, Central water & Power Commission (Power wing), Ministry of Irrigation & Power, Government of India. An apparatus for locating faults in the electric transmission lines and cables. Comprising a variable frequency sine wave generator across conductor a high impedance voltmeter.

134982. The Director, Indian Institute of Science, Bangalore, Power follow current limiting device for lighting arrestors, and similar protective devices. Comprising a resistance coil R shunted by a by-pass gap, said device being connected in the line leading from the tension wire A to the lightning arrestor.

134983. Void.

134984. Beazley Homes Limited. Improvements in or relating to panel wall systems. (March 18, 1971). Including the steps of preparing a base plate for wall, providing panel engaging means at intervals along the length of the base plate and providing panels having base plate engaging means thereon.

134985. Void.

134986. Void.

134987. Void.

134988. Horizons Research Incorporated. Process for the preparation of high molecular weight poly (phosphazene) copolymers. Comprises reacting a mixture of at least two different alkali metal salts, one of fluoroalkoxide and the other of aryloxide with linear soluble [-$NPC1_2$]x polymer wherein X is between 50 and 50,000.

134989. North American Rockwell Corporation. Actuator apparatus for selectively effecting positioning of needle jacks in a circular kniting machine. Comprises magnetic static force assembly means and magnetic force traslation means including a plurality of electromagnets.

134990. Void.

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134991. Repla International S. A. H. Method and means for producing an article—catching strip and an article catching strip produced thereby. Consisting in forming a shaped strip provided with longitudinal ribs on at least one side and cutting longitudinally spaced notches, across said ribs.

134992. Joseph Lucas (Industries) Limited. Starter motors for internal combustion engines. (April 3. 1971). Comprising a casing a rotor shaft, an armature assembly pinion assembly with a pinion having a clutch member and detent device.

134993. Void.

134994. Void.

134995. Adimathra Mathew Jacob. Thin concrete grid slabs. Comprising reinforced concrete ribs running at right angles of not less than 30 mms apart cast as one integral unit with filler blocks.

134996. Koninklijke Emballage Industrie Van Leer N. V. Bushing for a coupling such as a container closure and method for mounting such a bushing. Characterised in that an upwardly extending portion of reduced thickness is bent inwardly in the shape of a bottle neck and is provided with a radially outwards flanged edge.

134997. Void.

134998. The Miniature Bulb Industries of India. Improvements in or relating to incondescent lamps. Characterized in that it is provided externally on top portion of its bulb with silver-like light reflecting surface so that the light would ordinarily be permitted to escape unreflected, would be thrown back, on the surface of the parabolic reflector of a headlight reflector assembly unit for providing an additional light beam.

134999. Spolana, narodni podnik. Method and apparatus for producing N-trihalogenoalkylthioimides of dicarboxylic acids. By the reaction of trichloromethylsulphenyl chloride with an alkali metal salt of the corresponding imide of cicarboxylic acid in a condensation which is characterized in that formed crude microcrystalline agglomerates is disintegrated in a disintegration zone and circulated between the condensation and disintegration zones under intense cooling.

135000. Vysove uceni Technike. Injection unit for injection pumps of combustion engines. Comprising a body defining a cylinder within which a piston is accommodated, the said body further defining a guide for arranging a delivery valve.

135001. Johnson & Johnson Limited. Method of manufacturing bonded fabric. [Addition to No. 129068]. Comprises the steps of applying pressure on the web and causing the belt with the web to travel in an upward directing delivering the web from the bonding unit at a tangent to a star roller and delivering the web from the star roller to a slatted converyor belt.

135002. Void.

135003. Dr. Purushottam Upadhyaya. Cerebrospinal fluid shunt valve. Comprising a cylindrical flushing chamber of silicone rubber with an inlet and outlet, said inlet being in the form of a smaller to be extending into the chamber with at least one curved slit in the wall of the tube.

135004. Phoenix Distributors Private Ltd. A mobile machine for compressing hay, cotton, cotton waste or like soft and bulky materials into bales. Movable machine for compressing hay, mounted on a chassis, means for towing wheels, machine comprising a compression chamber, having at its top an opening seving as an inlet, reciprocating ram connected to a crank shaft driven by a prime mover through a set of gear wheels.

135005. Void.

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135006. Indian Jute Industries Research Association. Enzymatic softening of cellulosic textile materials. Treating the material with an aqueous solution of the enzyme cellulose at acidic pH and keeping it in a bath of said solution for about 16 hours washing the material thereafter

135007. North American Rockwell Corporation. Electromagnetic position pickoff assembly. Comprising a magnetic core having not less than four spaced poles, each pole having a winding, the windings of first and second pair being connected in series aiding circuit and adapted to be connected across a current source and a phase sensing circuit and windings of the third and fourth pole be connected in series opposing circuit and adapted to be connected across the other excitation source and said sensing circuit.

135008. Pfizer Inc. A process for preparing substituted quinoxaline-di-N-oxides. (January 31, 1972). Characterized by reacting a 3-methylquinoxaline-1, 4-dioxide-2-carboxylic acid hydroxyalkyl ester with a reactive derivative of a dicarboxylic acid, an alkylhaloformate, a chloro-or bromoacylhalide or an alkylisocyanate, and in the case of reacting with a chloro-or bromoacylhalide, if desired, reacting the resulting chloro or bromoacyloxy compound with a secondary or tertiary amine.

135009. Rockwell International Corporation. A generator adapted to provide multiple output pulses at multiple terminals. Comprising detector means, responsive to input signals, delaying means, responsive to transition output pulses and bistable means responsive to input signals and delay pulses for providing delayed output pulses.

135010. USM Corporation. Method of injection molding articles of foam material. Characterized by the fact that the temperature of the mixture is raised to a temperature at least equal to the normal foaming temperature of the mixture, the mixture is introduced in a mould cavity at a rate substantially to fill the mould cavity during the induction period of the blowing agent.

135011. Farbwerke Hoechst Aktiengesellschaft Vormals Meister Lucius & Bruning. Process for preparing concentrated stable liquid compositions of anionically soluble dyestuffs Precipitating sodium salt of the 1-[4′-(β sulfoethylsulfonyl) phenyl]-3-p-chlorophenyl-Δ 2-pyrazoline with calcium chloride, isolating the salt suspending it in an aqueous solution of ammonia or an organic base and adding to this suspension an inorganic acid.

135012. Cotton Incorporated. Method of making a durable press garment. Comprises the steps of pressing the garment to impart at least one crease thereto and supporting the garment impregnating the garment with a liquid impregnant containing constituents for giving the garment wrinkle resistance, drying the impregnated garment without curing the impregnant and heating the impregnated and dried garment to temperature of about 150°F to 350°F.

135013. Rhone-Progil. A method of producing phosphoric acid and calcium sulphate. Comprising the portion of sulphuric acid and calcium phosphate being distributed between the reaction zones to produce a plurality of reaction slurries, filtering the slurry, washing with water, introducing as a dilute and acid, a major part of water resulting from the washing into first reaction zone, introducing the filtrate from each reaction zone into a succeeding reaction zone so that P_2O5 concentration of the liquid phase is made higher than that of proceeding reaction zones and collecting and removing the filtrate.

135014. Pilkington Brothers Limited. Methods and apparatus for cutting glass. (March 22, 1971). Cutting the glass material along the required cutting line and subsequently surving the reinforcing members by effecting relative movement between the two parts of sheet material on either side of the cutting line in a direction parallel to the cutting line.

135015. Canon Kabushiki Kaisha. Method of transforming images developed by a liquid developer in electrophotographic processes. Comprises developing electrostatic latent images with a liquid developer and transforming the images to a paper having resin layer on its surface.

135016. Void.

135017. Imperial Chemical Industries Limited. Process for the preparation of polymer dispersions. (March 30, 1971). Comprises heating in the liquid medium at a temperature of at least 150°C an appropriate polymer-forming reactant or reactants so as to effect polymerisation thereof, the reactant or at least one of the reactants being insoluble in the liquid medium and being present as a liquid disperse phase in an emulsion in which the emulsifying agent (of the type herein described) is a polymeric material.

135018. Girling Limited. Seal for sealing an annular space and such seal in combination with a master cylinder assembly. (March 25, 1971). Comprises an annular body having substantially plane end face, a radially outward surface and a radially inward surface and an annular wall protruding axially from the other end face.

135019. Sperry Rand Corporation. Improvements in or relating to hydraulic pumps. (January 27, 1972). Includes a liner for the avoid surface of cavity, said liner comprising a sheet of resilent material extending in contact with the toothed peripheries of both gears and across the area adjacent the inlet with its free ends providing an opening adjacent the outlet.

135020. North American Rockwell Corporation. A system for controlling selected ones of a plurality of elements supported on a moving structure and following a routine and selector system for rotary knitting machine. Comprises sensor means, pulsing means and control means.

135021. Void.

135022. William Prym Werke KG. Method of and apparatus for manufacturing a sliding clasp fastener. [Addition to No. 131222]. Comprises means for feeding a plurality of warp threads to a weaving zone, means for laying a weft between the warp threads, a rotor and a loop forming mandrel.

135023. Envirotech Corporation. A method for continuously reducing the concentration of phosphorus in a phosphorus-bearing liquor. A method for continuously reducing the concentration of phosphorus in a phosphorus bearing liquor comprising establishing a plurality of successive reaction zones in separate tanks connected together for flow of liquor therethrough.

135024. Dilbar Hussain Malik. Process for conversion of waste material into moulding granules. Comprises (i) cleaning the waste material, (ii) removing the moisture from the material (iii) treating the same with a plasticixers and/or graphite or molybdenum disulphide, (iv) extruding the mass to obtain moulding granules.

135025. Void.

135026. Void.

136027. Scovill Manufacturing Company. A plug for a valve core, and a valve incorporating the same. (April 7, 1971). A plug having a slidable pin in an axial air passage bore the upper portion of the plug being threaded to engage a valve body and an annular lip deformable for sealing contact with a seating in the valve body.

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135028. Void.

135029. Council of Scientific and Industrial Research. A tube for use in heat exchangers. Provided with a succession of similar corrugations being provided both on inner and outer surfaces of the tube whereby the heat transfer efficiency of the tube is enhanced as compared with tube having corrugations on the outer surface.

135030. Council of Scientific and Industrial Research. Improvements in or relating to prevention of tarmishing of copper and copper base alloys. Comprising in preparing an aqueous solution comprising sodium dichromate and chromic acid, pH 1.5 to 4 and temperature 60-90°C, dipping the articles in the solution, washing under clean water and drying with hot air.

135031. Void.

135032. Void.

135033. Siemens Aktiengesellschaft. Apparatus for use in monitoring tensile stresses in continuously travelling Webs of material. Comprising a channel and at least one row of chambers which extends along the channel each chamber having an opening at one extremity and throttle apertures at the opposite extremity through which fluid can be supplied to the chambers from the channel.

135034. Void.

135035. Void.

135036. Jack Blackburn. Method of producing pamentlike sites. Comprises providing a shaped former having peaks inter-connected by support means, placing the former onto a base so that peaks form a barrier between first and second material reception spaces, introducing first site material into first space and at least partly filling second space with a second site material.

135037. Bunker Ramo Corporation. Electrical switch. Comprising a coil two contact controlling pins characterised a clapper arm first and second leg contilevered fingers and a pivot shaft.

135038. Cassella Farbwerke Mainkur Aktiengesellschaft. Dye composition. Comprising at least two different dyestuffs of the 1-amino-anthraquinone-3, 4-(N)-benzacridone series.

135039. Badiche Anilin-& Soda-Fabrik Aktiengesellchaft. Improvements in or relating to magnetic tape assembly. Comprising a pair of tape-supporting flangeless spools rotatable to unwind tape off a pack on one spool onto a pack on the other spood an dat least one guide element movable substantially radially to one of said spools and in the plane of rotation of said spools, at least part of said guide element being arranged between the pack and the outermost winding at a tangent to the pack and having a guide surface and guide flanges.

135040. F. G. Kretschmer & Co. Lead axide compositions sensitive to flames but insensitive to friction. Comprising uniformly sized lead azide particles covered uniformly with lead trinitro resorcinate.

March 24

135041. Void.

135042. Sybron Corporation. Force balance instrument. Comprising a first pivot fixed to a support and a first lever fixed to the first pivot, second pivot fixed to the support and second lever fixed to second pivot, a first, a second and third force producing device.

135043. Universal Oil Products Company. Method of preparing a hydrorefining catalyst. Impregnating a refractory inorganic oxide carrier material with an aqueous solution of a soluble compound of a metal of group VIB and calcining the impregnated carrier material.

135044. Heinrich Pannenbecker and R Plate. Tubular film blown process for thermoplastic materials having hot tack. Comprises extruding, expanding and solidifying at least two-ply tubular film or sheet of thermoplastic material, the inner ply being formed by a tack-free thermoplastic material and outer ply superposed thereon being formed by hot tacky thermoplastic material, slitting the double ply tubing and after flattening at least at one edge and arranging the film web in such a manner that one web having hot tack alternates with one tack-free web.

135045. The SFC Patent Trust. Pump for zinc-rich materials or the like. Comprises a variable volume pump chamber, check valve means including spherically curved valve seat and a ball valve member providing mating surfaces, said surfaces being engageable to prevent backflow, at least one of said surfaces being provided by flexible material with which coating material does not provide a weld type bond.

135046. Vsesojuzny Proektno-Tekhnologichesky Institut Tyazhologo Mashinostroenia. A device for rigging the postion and gripping a workpiece. Includes a gripping jaw, a motion screw, a toothed rack and a gear wheel, a reversible cam clutch. semiclutches, provision for rotation of said semiclutches, a mechanism for reversing said clutch a switch-cover link, and a resilient arrangements providng for pressing said semiclutches.

135047. Pressure Cookers & Appliances Private Limited. Pressure cookers and more particularly to the handle for the lid. [Divided out of No. 130610; ante-dated to 17th March, 1971]. Having a handle made of an alloy in which zinc content is from about 5.3 to 6.3% and the handle is given a small curvature along its length.

135048. Void.

135049. Emhart Zurich SA. Apparatus for generating an output signal from two input signals. Comprising two storage means for storing input signals; an impulse generator, two electronic circuits each comprising a first input, a second input and an output, said first input being connected with impulse generator and an adding net work connected with the output of each circuit.

135050. Void.

135051. Void.

March 25

135052. Eric Frederick Baxter. Improvements in or relating to battery electric driven vehicles. A battery-electric driven vehicle having an axle housing including a differential housing a differential gear, drivingly connected by half shafts to road wheels or a gear drivingly connected by one or two half shafts to one or two road wheels in combination with a generator or generators mounted upon the axle housing or upon a platform or sub frame on the axle housing or contained in the vehicle, a belt or belts or chain or chains, drivingly connected to said generator or generators and pulley or sprocket or pulleys or sprockets, drivingly connected to a power take off gear or shaft driving means mounted upon the axle housing at the point where a propeller shaft is or normally is fitted and drivingly connected thereto by means of a universal joint or gear, electric connections between the said generator or generators and a traction battery or batteries.

135053. Eric Frederick Baxter. Improvements in and relating to pneumatic tyres. Comprises a pair of bead wires a carcase of parallel cord fabric, a parallel cord breaker, a tyre tread, a visual wire indicating means throughout at least three quarters of the axial width of the tread.

135054. Industriele Onderneming Wavin N. V. A method and device for deforming hollow sections. Comprising of a hollow mould, two annular chambers, sealingly deforming body an of ring and space between two said chambers.

135055. Wilhelm Stahlecker G.m.b.H. Spindle bearing assembly for a spinning or twisting machine. Characterized in that the lower part of the centering tube is designed to form a spring means with which the footstep bearing is adapted to engage.

135056. Halcon International, Inc. Controlled oxidation of ethylene to ethylene oxide. Employing ethane as a component in the oxidation reaction mixture and maintaining a cone thereof in said mixture of 10 to 70 volume per cent and maintaining a concentration of carbon dioxide in said mixture of 10 to 70 volume per cent.

135057. Karl Fischer Apparate-U-Rohrleitungs-bau. Tube bundle heat exchanger. Characterized in that at least one of the two flow courses destined for the heat accepting and the heat conducting media and separated from each other is split into several passes and in that for multi-pass flow of the medium around the tubes within the shell there are provided longitudinal baffles extending over the entire length of the shell.

135058. Rodney Hunt Company. Apparatus for subjecting moving material to a liquid treatment. Comprising a pair of spaced opposed wall members difining a treatment zone therebetween, the wall members lying in non-parallel planes which intersect at a line which is located exterior of the zone, support means including a fixed support member having a groove therein which is concident.

135059. Void.

135060. Dr. Carl Hahn GmbH. Apparatus for pressing absorbent cotto narticles, particularly tampons for faminine hygiene. Said apparatus having in serial relationship therewith a workpiece carrying means, a pair of pressing jaws, first shaping means for moving the lower shaping jaw.

135061. Mitsubishi Denki Kabushiki Kaisha. Fly Wheel magneto and manufacture thereof. Comprising a yoke fitted on the inner side of the fly wheel, a ferrite magnet and a pole provided in the yoke, and a stator core having a generating coil.

135062. Sandvikens Jernverks Aktiebolag. Package for cutting inserts. Characterized in that the package can be separated into smaller package units by breaking, the lid being detached together with the underpart, after which respective parts of the divided lid can still serve as sliding lids to the separate of the package.

135063. Cassella Farbwerke Mainkur Aktiengesellschaft. Process for the preparation of nee basically substituted 1(2H)-phthalazinone derivatives. 2-(r-morpholino- β-hydroxypropyl)-5, 6, 7-trimethoxy-1(2H)-phthalazinone is reacted with 3, 4, 5-trimethoxybenzoyl chloride.

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135064. Director, Indian Agricultural Research Institute. An inoculation coating composition for coating of legume seeds. Comprising a binding material 10—20 per cent, a bacteria nutrient 5—10 per cent, a dispersing agent 0.1—0.5 per cent and a trace element 0.6—1 per cent.

135065. Council of Scientific and Industrial Research. A new method of encapsulating photoconductive cells. Consists in placing a photocell having a photosensitive layer in contact with a top covering plate and applying an adhesive at the boundry of the contact and putting the whole in a plastic box.

135066. Council of Scientific and Industrial Research. A strain gauge obstruction flow transducer. Characterised in that the strain gauge is cemented to a thin solid sheet placed as an obstruction in a flow path in a tube, one end of the thin sheet being fixed to the inner wall, of the tube, the other end of the sheet protruding in the tube, whereby the strain gauge obstruction flow transducer is inserted in a flow path, a forced developed by the flow which is used to change electrical resistance and thus flow rate is measured.

135067. Claude-Roger Isman. Detachable soles for footwear. The sole of a footwear having two parts which are connected to one another and which define between them a continuous free space the width of which corresponds to the thickness of an upper.

135068. Vickerys Limited. An improved chuck. (April 23, 1971). Wherein each slot in the sleeve contains a single tooth of generally rectangular cross section having a pair of inner edges and a pair of outer edges, tooth having little or no lateral movement in the slot and being adapted to rock with respect to the base of the slot about one or other of its inner edges.

135069. Thermo King Corporation. A compressor refrigerant system employing a fluorocarbon refrigerant combined with a lubricating composition. Employing a fluorocarbon refrigerant combined with a lubricating composition in contact with the fluorocarbon the lubricating composition comprising an oil, and a liquid halogenated polyphenyl compound.

135070. Void.

135071. Joseph Lucas (Industries) Limited. Apparatus for and a mehod of forming helical splines. (April 1, 1971). Comprising the step of forcing a tool carrying a complementary impression of the desired form into (or onto) the sleeve, said tool being supported by a first means and said sleeve being supported by a second means so that the axes of the sleeve and the tool are coincident.

135072. Hydroculture, Inc. Apparatus for growing plants hydroponically in a substantially automatically controlled environment. Characterised by first and second means to introduce and maintain cooling ambient air flow, thermostat and humadistat and means responsive to the same.

135073. Void.

135074. Chemie Linz Aktiengesellschaft, formerly known as Osterreichische Strickstoffwerke Aktiengesellschaft. Improvements in or relating to a granulated, sprayed or prilled fertiliser and process for producing the same. Comprises adding calcium sulphate having at least 50% by weight of reactive anhydrite and ammonium sulfate to a melt comprising ammonium nitrate and shaping the melt.

135075. Development Consultants Private Limited, Improvements in or relating to valves. Comprising operating means for said valve having a main bracket of one end a piston and cylinder having blind end a crank lever main shaft and a valve disc.

135076. Stauffer Chemical Company. Process for the manufacture of herbicide compositions. Comprises admixing an active herbicidal compound and 2, 2-dimethyl-1, 3-oxazoline.

135077. Council of Scientific and Industrial Research. Imporvements in or relating to obtaining pharmacologically active anti-inflammatory agents from curcumin. A process for obtaining pharmacologically active anti-flammatory agents from curcumin which consists in reacting curcumin with alcoholic sodium/potassium hydroxide in the proportion of 1 : 2 moles respectively.

135078. Phiroz Abdeally Poonawalla. Improvement in or relating to crampon for shoes. Characterized in that the front and rear assembly each being made up of two assemblies capable of sliding in respective radial slots with a locking nut, the circular slots being provided for adjusting the breadthwise distance of the toe and heel portion of the shoe.

135079. Subhash Shankar Marathe. Automatic opening device for surge out let on rising mains. Comprising opening in a branch pipe line opens in a will fitted with a disc having hinged lid connected by a screw and link mechanism which in turn operated by a solenoid.

135080. Void.

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135081. Void.

135082. Void.

135083. Fruehauf Corporation. A rope suspension system. (September 6, 1971). Comprises a crane structure supporting a gantry having a pair of rails, a pair of trolleys, a frame interconnecting said trolleys with moving means and a fleet-through receiving system.

135084. Automotive Products Company, (Baubury) Limited formerly known as Automotive Products Company Limited. Improvements in or relating to friction clutches, including driving and driven members one of which is constituted by a clutch plate adapted to be frictionally engaged between co-operating annular surfaces of two components, one of the components comprising a pressure plate arranged between the clutch plate and a cover member.

135085. Bayer Aktiengesellschaft, formerly known as Farbenfabriken Bayer Aktiengesellschaft. Modified anionic papersizing agents. (June 24, 1971). Comprises a mixture of I, from 5 to 50 per cent by weight aqueous solution of a water-soluble reaction product of a copolymer with 0.4 to 100 equivalents per imide group in copolymer of ammonia, an aliphatic or cycloaliphatic amine, an alkali metal carbonate or alkali metal bicarbonate or mixture thereof and II, from 5 to 50 per cent by weight latex of a copolymer of olefinically unsaturated monomers, the weight ratio of mixture I and II are from w : 15 to 15 : 1.

135086. Norton Company. Coated abrasive material. Coated abrasive material having at its exposed graiding surface a coating comprising a dnid, fused elastomeric material having substantial residual unsaturation and containing an antioxidant.

135087. Dana Corporation. Bearing cup for a universal joint. Having a pair of jokes pivotally mounted with respect to each other by means of bearing cups disposed about the trunnions of a journal cross.

135088. E. I. du Pont de Nemours and Company. Process for preparing pyrazoles useful as plant growth regulants. Comprising contacting an appropriately substituted sodium phthalate and methyl ketone with elemental sodium or an alkali metal hydride or alkoxide in di methyl formamide and contacting the reaction product with hydrazine or a monosubstituted hydrazine in the presence of an acid.

135089. Libbey-Owens-Ford Company. Producing bent tempered glass. Characterised by initiating chilling of the sheet as the same is bent and while it is in lifted position on the mold and continuing the chilling until the glass is tempered.

135090. Void.

135091. Orsky Neftepererabatyvajuschy Zavod Imeni Chkalova. Method for separation of emulsion formed in microbiological dewaxing of petroleum fractions having distillation range from 230 to 450°C. Characterised by heating the emulsion with a 2 to 5 per cent aqueous ammonia-soda solution having ammonia-soda ratio of 1-4 : 4-1 at a temperature from 60 to 100° and allowing the mixture to settle.

135092. Egypt Gyogyszervegyeszeti Gyar. Process for the preparation of new pyridine derivatives and their salts. Consisting of hydrogen atom, alkali metal atom, alkyl group containing 1 to 3 carbon atoms substituted with a hydroxyl group benzyl group and benzyl group substituted with a halogen atom.

135093. Searle (India) Limited. Process for preparing diphenylacetonitrile. Comprises reacting liquid bromine with benzyl cyanide in tebrachloroethytene at about 100—120°C to give α-bromophenylacetonitrile followed by contacting the α-bromophenylacetonitrile with aluminium chloride and benzene to yield diphenylacetonitrile.

135094. Basti Mal Jain. Device for making puri "chapati" or the like flat cakes. Arrangement being such that when the two plates are lying one above the other, the bent portion of the rod is in a plane parallel to the plane of the plates and when the handle is lifted from such position, the rod rotates due to the action of pinion and gear and the bent portion of the rod rotates therewith, as a result of which the bent portion emerges out of the slot lifting the upper plate away from the lower to permit a piece of dough to be inserted.

135095. Void.

135096. Telefonaktiebolaget L. M. Ericsson. Process for electroplating an aluminium wire. A process for electroplating an aluminium wire with at least one metal selected from the group consisting of nickel, copper, tin, zinc and cadmium characterized in that it comprises the steps: (1) passing the wire through an acid bath consisting of an aqueous solution of hydrofluoric and hydrochloric acids, and (2) electroplating the wire with at least one of said metals by passing the wire through an electrolyte which contains at least one of a fluoborate or a sulphamate salt of at least one of said metals, the aluminium wire being the cathode and the selected one of said metals being the anode.

135097. Imperial Chemical Industries Limited. Process for reducing the amount of primary arylamine impurity in a diarylamine. (April 7, 1971). Comprise heating the diarylamine with a functional derivative of an organic acid.

135098. Void.

135099. Svenska Aktiebolaget Bromsregulator. Force transmitting device of a weighing valve for a vehicle. (December 4, 1971). A force transmitting device of a weighing valve intended for mounting in the underframe of a vehicle and the said device including a valve-part for emitting a pressurized fluid with a pressure related to the load of the vehicle, which device is arranged for delivering to the valve-part a force proportional to a certain greater force and comprises a housing, an incompressible medium enclosed therein, a piston transmitting the greater force to the medium and an axially movable plunger in contact with the medium, which plunger is provided to deliver the force and having a smaller cross sectional area than the piston, characterised by the fact that the incompressible medium is in the form of a solid block of a plastically deformable material and that the plunger is extending into the medium so that its end on all sides is surrounded by the medium.

135100. Void.

135101. Void.

135102. Emhart Corporation. Apparatus and method for making glassware by a press and below technique. Characterized by an intermediate mold also defining an opening, the body mold being open at the top to receive a gob of molten glass and being movable relative to the other molds and the intermediate mold comprising a plurality of sections which are movable into engagement with each other and with the bottom of the neck mold to define its opening which is in registry with and matches the neck mold opening at its top and which at its bottom also matches the top opening of the body mold.

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135103. Madurai Rajagapala Venkataraman. New method of erecting buildings like residential houses, public building or an office. Comprising pre-fabricating roof, floor slabs, wall slabs, columns, laying foundation, sliding wall slabs into grooves of adjacent column blocks etc.

135104. Uniroyal, Inc. Method of laminating a reinforcing element having a metal surface and rubber. Characterized by mixing in the rubber composition before vulcanization a halogenated quinone and a condensation reaction product of resorcinol and an aldehyde.

135105. Rohm and Hass Company. Method of preserving storable crops. A method of controlling storage rot fungi in a cereal grain which comprises applying to said harvested crop, in an amount and at a time such as to inhibit deterioration of the crop by fungal attack, at least one zinc or sodium salt of a dithiocarbamic acid.

135106. Dillingham Constructions Pty. Limited. Mineral concentrator. Comprising an inclind tapered chute having side walls which converge towards the lower end of the chute, a parallel sided gangue outlet trough constituting a horizontal extension of the chute, and a mineral outlet gap between the floors of the chute and trough respectively.

135107. Dillingham Constructions Pty. Limited. Mineral concentrator. A chute having side walls leading to a channel constituting a restricted outlet, the deck of the chute having a transverse slot disposed at the threshold of the outlet, and the outlet being furnished with adjustable means whereby the width of said slot may be varied to suit requirements.

135108. Bayer Aktiengesellschaft. Process for the vulcanisation of natural and/or synthetic rubbers made from halogen-free dienes. Heating rubber with sulphur, an vulcanisation accelerator comprising one thiazole type accelerator and one 2, 4, 6-triazine.

135109. Void.

135110. Taro Takayama. Inorganic gel-ammonium nitrate composite material and method of manufacturing the same. An inorganic gel-ammonium nitrate composite material comprising a ripened mixture of ammonium nitrate and a purified and swollen inorganic gel prepared from a day.

135111. Kokan Mining Company Limited. Metallurgical pellets and their production. Forming a mixture of a liquid and solid particles in a particle size distribution favourable to dense packing, vibrating the mixture while rolling it into a layer of uniform thickness, dividing the mass into bodies of equal size, thereafter rounding the bodies by moving them freely over an oscillating surface to form pallets of uniform size and density.

135112. Kokan Mining Company Limited. Improvements in or relating ferrous pellets. Having a crushing strength of at least 3 lbs. and consisting essentially of particulate iron oxide and particulate carbon, said carbon being distributed throughout said pellets, characterized by pelletizing a mixture of particulate iron oxide and carbonaceous reductant with the help of bentonite or an aqueous solution of sodium silicate as binder.

135113. Kokan Mining Company Limited. Production of metallurgical pellets in rotary kiln. Treating pellets formed from a mixture of iron oxide-bearing material and particulate carbon to cause a reduction of at least a portion of the iron oxide in the material while the pellets are passed through a rotating tubular kiln.

135114. Ceskoslovenska Akademie Ved. Process for manufacturing juvenile-hormone-like inspecticide containing a peptide chain and halo atom/s in the molecule. Comprising condensing an appropriate aniline derivative or of aniline acid derivative with a corresponding acid.

135115. Ramesh Vishnu Oka. Component scale. Comprising a base marked with a quandrat of a circle, said quadrant being marked with 0° to 90°, the radie being marked with equal number of divisions, a radial arm, being marked with equall number of division, hingedly secured to the base at the centre of the circle.

135116. Smt. Rathna Krishna. Combined slotting and blanking tool. Characterised in that the said tool has at its outer end a small circumferential punching extension which projects on one side of said tool which partly blank out the sheet being punched.

April 1

135117. Hindustan Lever Limited. An improved process for preparing a hard fat replacer. (April 2, 1971). Comprises incorporating at least 85 per cent pure SOS, POS or SOS/POS in palm mid fraction.

135118. Joseph Lucas (Industries) Limited. Full-wave rectifier assemblies. (May 13, 1971). Comprising in combination an axially extending support member, first and second conductive terminal members mounted on said support member, a plurality of phase plates fixed relative to said support member, diodes inter-connecting the terminal plates and the phase plates, a retaining member holding said terminal members and said phase plates in position on said support member and an insulating member being provided with a layer of an insulating hydrophobic material extending over the region of the insulating member which is exposed in use.

135119. Void.

135120. Void.

135121. Venkataraman Ramachandran. A paper clip. Having a triangular pocket formed at one end, the other end extended and formed to have a suitable shape, with a crease below the triangular pocket.

135122. G. D. Searle & Co. An instrument for inserting an intra-uterine contraceptive device. Comprises an elongated tubular body including a distal section provided with a first bore to slidably engage the contracted device and a mouth opening of greater diameter at its proximate end and a plunger to slidably engage the bore.

135123. J. & P. Coats, Limited. Process and apparatus for producing dyed and cleaned material. (April 3, 1971). Passing a mixture of a dye and a dye carrier through the material, separating the dye in the mixture and storing the dye and the dye carrier separately, passing cleaning fluid through the material and then through the store of dye, separating and storing the cleaning fluid from the dye.

135124. Shanam Progetti S.p.A. A process for the preparation of porous activated catalytic composition. Comprising combining a finely dispersed mixture of the oxides of (a) antimony and (b) a second element selected from iron, uranium, tin, cerium, manganese and thorium with a compound which is volatile at a temperature lower than the activation temperature of the mixture.

135125. Cassella Farwerke Mainkur Aktiengesellschaft. Process for preparing new ketone derivatives. Comprises adding corresponding amine to the corresponding benzoylacrylo derivative.

135126. Mark Isaakovich Frenkel. Direct-flow cylindrical valve. Comprising a pack assembled seriesly arranged elements each of which includes ring-shaped members.

135127. Lucas-TVS Limited. A device for cleaning oxidized electrical contacts. Includes a convertor for converting D.C. to A.C. pulses, a D.C. source, a step-up transformer, a rectifier and a capacitor of high voltage rating which is capable of being charged by the rectifier, said capacitor being adapted to discharge across the contacts.

April 3

135128. Saint-Gobain. A method and apparatus for the manufacture of fibres from molten thermoplastic material. Wherein the molten material is caused to flow centrifugally within the hollow body on the surface of an annular member, the temperature of the annular member is kept at a value close to that of the wall.

135129. Unilever Limited. A blue cheese flavouring composition. Comprises a mixture of (i) 1 to 8 parts by weight of 1-octon-3-ol (ii) 15 to 30 parts by weight of 2-alkanones (iii) 40 to 60 parts by weight of alkanoic acids (iv) 0 to 25 parts by weight of 2-oxoalkanoic acids and 2-oxoalkanedioic acids (v) from 0 to 5 parts by weight of 2-alkanols (vi) 0 to 0.2 parts by weight of methyl and ethyl esters of alkanoic acids and (vii) 0 to 2 parts by weight of aldehydes.

135130. Unilever Limited. A cheddar cheese flavouring composition. Comprises a mixture of (a) alkyl amines having 3-5 carbon atoms and (b) alkanoic acids having 2 to 10 carbon atoms and optionally (c) 2-alkanones having 5-13 carbon atoms (d) aldehyde having 2-10 carbon atoms (e) methyl and ethyl esters of alkanoic acids having 4 to 10 carbon atoms (f) 2-oxoalkanoic acids having 2 to 6 carbon atoms and 2-oxoalkanedioic acids having 4 or 5 carbon atoms and (g) methional.

135131. Dunlop Holdings Limited, formerly known as the Dunlop Company Limited. Pneumatic tyres. (April 7, 1971). [Addition to No. 115122]. Comprising a tread provided with a plurality of bars each extending substantially from the mid-circumferential plane of the tyre towards at least one shoulder, the buttress face, of each bar having an angle of inclination over a part at least of its length of at least 20° with respect to a radial direction with respect to the tyre.

135132. Vereinigte Aluminium-Werke Aktiengesellschaft. Apparatus for continuously digesting bauxite. Comprises at least two digester tubes, at least one diaphragm piston pump, decompressors and heat exchangers.

135133. Inventor AB Ope. Container for the mouldering of organic waste. Characterized in that a grate provided above the container bottom, the grate being designed to support the moulderable material and to successively release mouldered material down into the container bottom and in that air inlet and an air outlet are provided for air circulation.

135134. Laporte Industries Limited. Improvements in and relating to a process of beneficiation of ilmenite ores. (April 5, 1971). Comprises the steps of forming a product containing pseudobrookite from ilmenite reduction of the formal product and leaching characterized in that the product so formed contains at least 20% by weight of pseudo-brookite and is reduced in a manner so that no less than 4% of the iron content is in the ferric state and the material so obtained is leached to yield a beneficiated titaniferous material.

135135. Nestle's Products Limited. A process for preparing a snack food product from rice. Forming a dough of rice flour and water shaping into pieces, subjecting it to heat treatment maintaining the water content above 27% drying it to a water content below 15% and optionally deep-frying the dried pieces.

135136. Void.

135137. The National Cash Register Company. Sensitized record sheet material for use with normally colourless marking material. Characterized in that the acidic colour-forming reactant is an oil-soluble metal salt of a phenol-formaldehyde resin.

135138. The National Cash Register Company. Record sheet material. Characterized in that the supporting sheet also carries an oil soluble metal salt.

135139. Rhone-Progil. A process for bulk polymerising vinyl chloride or vinyl chloride and another monomer. Comprises carrying out at least part of the polymerisation in a polymerisation medium containing at least one polymerisation initiator having half life of less than one hour by adding in the medium a fraction of initiator and then a complementary fraction of said initiator in the or at least one of the monomer to be polymerised.

135140. N. V. Philips Gloeilampenfabrieken. Solid state imaging device. Characterized in that the radiation sensitive elements are each formed by a field effect transistor the gate electrode of which is separated from channel region by p-n junction, means being present for intermittently applying a voltage to the gate electrode of each field effect transistor and means for applying an interrogation voltage between the source and drain and means for deriving a signal which forms a measure of a quantity of radiation.

135141. Void.

135142. Pending.

135143. Void.

April 4

135144. Council of Scientific and Industrial Research. A new process for the manufacture of paraffin wax from slack wax. Characterised in that the treatment is carried out under the following precise conditions to the molten slack wax 98% sulphuric acid in 5 to 10 per cent by volume of slack wax is added at 70-80°C. fuller's earth in 5 to 10% by weight of slack wax.

is added at 70-80°C to the molten slack wax free from acid sludge and the slack wax treated with fuller's earth is filtered under vacuum.

135145. Council of Scientific and Industrial Research. Improvements in or relating to printing dots or such other patterns on the semiconductor materials such as silicon, germanium or microscopic glass slides or ceramic. Consisting in rigidly mounting the slice on a vacuum platform, sliding down there on a bracket in which a mask of the printing pattern is held and rubbing a slurry against the slice through the holes of the printing pattern.

135146. Council of Scientific and Industrial Research. Improvements in or relating to the manufacture of a multiple-probe-head for measuring resistivity. Comprising the probe header body, having two insulated hood holding probes connected to a voltage measuring instrument, probes having held against the specimen characterised in that a windowed pipe is mounted on the proves.

135147. Council of Scientific and Industrial Research. Improvements in or relating to electropolishing of mild steel. Characterised in that an inhibitor is added. which is a condensation product of formaldehyde and betanaphthylamine or formaldehyde and para toluidine.

135148. Void.

135149. Norton Villiers Limited. Vehicles. A vehicle of the kind specified comprising an engine unit which includes the engine, a fork carrying the driven wheel for rotation about a first axis and mounted in a mounting fixed in position relative to the frame for pivotal movement about a second axis, the first and second axis being mutually parallel and parallel to said crankshaft axis, balancing means carried by said crankshaft and which statically balances between 90 and 110% of the rotating mass of the engine only so that in operation the engine unit tends to oscillate about an axis of oscillation generally perpendicular to said common plane containing the longitudinal axis of the cylinders and mountings between the engine unit and the frame to support the engine unit in the frame the mountings being arranged so that they resiliently resist oscillatory movement of the engine about said axis of oscillation and the sum of the stiffness moments about the axis of oscillation of the mountings to one side of each of two planes containing the axis of oscillation and respectively perpendicular to and parallel to the rotary axis of the crankshaft being substantially equal to the stiffness moments of the mountings on the other side of the respective plane.

135150. Sherritt Gordon Mines Limited. Method for reduction roasting nickeliferous laterite ores. (May 3, 1971). Ore passes downwardly through a pre-heat zone and then through a reduction zone, passing a stream of hot gases produced by the partial combustion of fuel counter current to said ore, injecting hydrogen into the furnace at the bottom in an amount sufficient to maintain hydrogen concentration of the gases contacting the ore in the lower half of the reduction zone above about 25% by volume, and maintaining the hydrogen content of gages exiting from the furnace above about 3% by volume, controlling the rate of throughput of ore through the furnance such that depth of ore on each of the furance hearths is within the range of about 0.05 to about 0.085 inch for each minute of ore residence time within the furance.

135151. Uss Engineers and Consultants, Inc. [Addition to No. 132832]. Operating mechanism for slidable-gate closures. Comprising a frame characterised by spring-pressed means carried by said frame for slidably supporting a gate in alignment with the nozzle.

135152. Void.

135153. Unilever Limited. Cheese flavour (Amino Acids). Comprises and mixing (a) from 90 to 100% by weight of at least three amino acids and (b) 10 to 100% by weight of other full protein amino acids.

135154. Sandoz Ltd. Process for the production of dichloroquinacridones Cyclising 2, 5-di-(3′-chlorophenylamino)-terephthalic acid with 75% to 90% H_2 So_4 at 100°—170°C.

135155. Void.

135156. Cassella Farbwerke Mainkur Aktiengesellschaft. Hydroxy-pyridone-monosulfonic acids. Characterized in that chlorosulfonic acid is reacted with 4-methyl-6-hydroxy-2-pyridone at +20—+25°C

135157. Void.

135158. Thorn Electrical Industries Limited. Panel mounting of electrical components. (April 29, 1971). Including a housing for attachment to a panel a holder for accommodating the component, the holder being movable into the housing against biasing means therein for urging the holder out of the housing, and a latching mechanism operable to lock the holder inside the housing.

135159. The Metal Box Company Limited. Improvements in lids for circular containers. (May 6, 1971). Whereby the width of the open end of the channel section is less than the distance between the limbs at the base of the channel section; whereby the lid is formed first by pressing a circulars blank into a die, and thereafter reducing the width of the open end of the channel section by causing the inner limb to coverage towards the outer limb.

135160. Schweizerische Isola-Werke. Lapping tape for insulating electrical machinery. By the process of full impregnation with a resin in vacuum comprising mica paper as a dielectric a porous substrate for said mica paper and an adhesive for binding together the dielectric and the substrate.

135161. Void.

135162. Standard Brands Incorporated. Method of refining fructos-containing solution. Treating with activated carbon and there with a strong acid cation exchange resin in the hydrogen form and a weak base anion exchange resin in the free base form.

135163. Matthias Schmidt. Honeycombs made of synthetic plastics material. Comprises a centre wall and a plurality of walls extending on both sides of the centre wall to provide cell portions the surface of the centre made in each cell portion being formed with a depression.

135164. Gould Inc., Tire head sealing and seating device. Comprising a first cylinderical member, first sealing means connected to said first cylinderical member for engaging a rim of a wheel; a second cylindrical member, second sealing means connected to said second cylindrical member for engaging a side wall of a tubeless tire.

135165. Texaco Trinidad Inc. Hydrocarbon Separation process. By separating relatively long straight chain hydrocarbons from hydrocarbon mixtures at superatmospheric pressures using a molecular sieve selective adsorbent of type 5A structure.

135166. Farbwerke Hoechst Aktiengesellschaft vormals Meister Lucius & Bruning. Method for preparing emulsion concentrates of biocidal substances. Comprising adding to an insulated berbicidal in an organic solvent, an emulsifier containing alakline earth metal salt, Zn salt aluminium salt of a chlorinated n-paraffin sulfonic acid and non-ionic emulsifier in a weight ratio of from 1:3 to 3:1.

135167. Parks-Cramer Company. Method and device for cleaning elongated textile machines, such as spinning frames. Comprises the steps of travelling a housing in one direction above and along the machine with at least one tube and at least one tube for pneumatic cleaning rotation said tube substantially about a vertical axis.

135168. Maschinenfabrik Zell J. Kruckels KG. Winding machine for sheet materials. Characterised by that the set of rolls contains at least one driven delivery roll and return roll, the return roll is supported on bearings in deflectable manner along the axis of the delivery roll.

135169. The K.C.P. Limited. Self-locking pneumatic device for industries including sugar industry. Comprising a tray or containing having spindle coil valve be to control discharge passage, pistons main auxilary cylinder piston rods, secondary and carrying can and control valves.

135170. National Institute of design. Type founts having devanagri characters. [Addition to No. 117554]. Characterised in that the curved element or components of the characters of the type bodies are flattened by reducing the curvature so that the curvature appears only at the ends or junctions of curved portions and the character is elongated in vertical direction.

APRIL 5

135171. Void.

135172. Ramesh Hanumandas Agarwal. Air cooler cum water cooler. Wherein one end of a tube is connected to a tank and circulated through the water stored in another tank and brought out from the frontside of a fan, to the other end of which is a tap.

135173. Ramesh Hanumandas Agarwal. Motor vehicle air cooler. The invention relates to a motor vehicle air cooler in which the momentum of the air entering causes the fan and subsequently the pump to operate and supply water from the tank to the top of khus tatti situated parallel to grille of automobile.

135174. Void.

135175. Vidhu Bhushan. Pilfer proof cap for bottles. Consisting of two parts, the cover member and the gripping and locking member, the cover member comprises a cap member with an annular skirt and the gripping and locking member comprises a ring with interiorly formed sealing projection and one or more holding members.

135176. McNeil Corporation. Apparatus of and method for controlling manufacturing process. Comprising command means providing command signals dictating the duration of the developing operational steps in terms of cure equivalents, measurement means a measurement signal representing the progress of an operational step in terms, cure equivalents, comparison means arranged to compare said measurement signal with command signal and to supply an output signal upon a match between said measurement signal and said command signal and control means arranged to control the process of curing the rubber compound in accordance with said output signals.

135177. Uss Engineers and Consultants, Inc. Method of and apparatus for treating liquid steel. Characterised by closing the tundish outlet with a porous plug in which steel is introduced injeecting inert gas and oxygen rich gas one after the other through the plug to removed skull formed in the outlet.

135178. Rephamac A. G. Process for obtaining highly polymerised desoxyribonucleic acids. Subjecting the substances such as fish milt to a treatment by alkali salt employing phenol as protein eliminating agent.

135179. Sherritt Gordon Mines Limited. An improvement in or relating to reduction roasting of nickel-bearing ores. (May 3, 1971). Characterised in that the exiting ore particles are separated from exiting gaseous stream and said separated particles are passed to an inlet and injected therethrough into the furnace as a continuous plug.

135180. Wells Manufacturing Corporation. Portable power-driven harvesting implement. Comprises a housing containing an iternal combustion engine, a reduction gear, centrifugal clutch, a link member means for converting rotary motion into longitudinal reciprocating motion of link member and a clamp.

135181. Ireco Chemicals. Explosive compositions containing calcium nitrate. Comprises (a) at least one inorganic nitrate oxidizer other than calcium nitrate (b) a liquid hydrocarbon (c) calcium nitrate in an amount sufficient to prevent coalescence of said hydrocarbon (d) water to from a dynamically stable slurry and (e) a thickening agent, the said composition is stable against gravitational seggregation of the ingredients and degasification.

135182. Ireco Chemicals. Explosive compositions containing guar gum derivative. Characterized by containing a guar gum derivative consisting of a guar gum which has been oxidized to a lower molecular weight.

APRIL 6

135183. The Fertilizer Corporataion of India Limited. An electric furnace in combination with heat control device. An electric furnace in combination with heat control device, the heat control device comprising of a refractory tube of good thermal conductivity with a number of uniform circular grooves over its outer surface for providing heating elements, the tube being encapsulated in insulating materials provided the outer metal casing coaxially.

135184. Lipha, Lyonnaise Industrielle Pharmaceutique New amino alcohols derived from ortho transhydroxycinnamic acids, their esters and their amides. A process for preparing new aminoalcoholic derivatives of ortho transhydroxycinnamic acids characterised in that an amine derivative is caused to react with an epoxide.

135185. Societe des Mines et Fonderies de Zinc de la Vieille Montagne, Societe Anonyme. Method of preparing a pigment on an iron oxide base. Comprises subjecting ferrous sulphate solution to neutralization and oxidation by atmospheric oxygen, filtering off the precipitate; subjecting the liquid to neutralization and oxidation to precipitate most of the iron contained in the filtrate in the form of goethite **FeOOH** α and treating the latter precipitate in a basic medium.

135186. Uss Engineers and Consultants, Inc. Method of and apparatus for replacing a holder for a pouring tube on a bottom pour vessel. Characterised by supporting the holder for sliding movement in direction of gate movement, placing a replacement holder in a temporary supporting portion and operating the mechanism to move the replacement holder into the portion of the old holder and displacing the old holder.

135187. The Firestone Tire & Rubber Company. Apparatus for mixing and forwarding a flowable material. [Addition to No. 129495]. Comprising a carrier arranged to rotate about an axis and a plurality of discs disposed along the axis of said carrier, each of the discs being inclined away from normality to said axis, said carrier comprising two stub-shafts and a cage structure embracing the discs, attached to the stub-shafts.

135188. Void.

135189. Raymond Charles Glicksberg. A sound-amplitude limiting device. Comprising a highly effective sound deadening substance located between the speaker and microphone of a microminiaturised electronic sound-reproducing system including battery and amplifier type circuitry with output limiter.

135190. Siemens Aktiengesellschaft. Radio relay network system for the transmission of digital signals containing at least one radio relay station serving a plurality of radio relay links. (December 21, 1971). Comprising one link section. each said link section being formed from a transmitter in one station and associated receiver in an adjacent station, wherein the radio relay links are transmitted in the same frequency band, the transmitting power of the transmitter is increased by means of a control loop via an auxiliary channel from the receiver to the transmitter.

135191. Licentia Patent-Verwaltungs G.m.b.H. An apparatus for analysing particles suspended in a liquid. (March 1, 1972). Comprising a first chamber to contain an electrolyte and a second chamber to receive a flow of said electrolyte through a first measuring orifice interconnecting the first and second chambers and feed means to supply the particle suspension to the first measuring orifice.

135192. Void.

135193. Void.

APRIL 7

135194. Void.

135195. Vereinigte Aluminium-Werke Aktiengesellschaft. Method and apparatus for continuously digesting bauxite. (February 10, 1972). Digesting bauxite with sodium aluminate liquor in a digester tube of pressures of 10 to 200 atmospheres at temperatures 150 to 300°C. wherein a suspension of bauxite in aluminate liquor in sustained turbulent flow and the suspension is heated to different temperatures in different portions of the length of the tube.

135196. Solvay & Cie. Process for the preparation of aqueous solution for washing and bleaching. Characterised in that the free metallic ions contained in the aqueous solution are reacted with aqueous solution of an alkali metal or ammonium salt of a poly- -hydroxy acrylic acid to form a complex.

135197. Colgate-Palmolive Company. A visually clear dentifrice. A clear dentifrice comprising a water-insoluble particulate polishing agent in a gel vehicle having seubstantially the same refractive index as said polishing agent.

135198. Wilkinson Sword Limited. Improvements in razor blades. (January 29, 1972). Comprises a razor blade having a discrete coating of nitride of an alloy of chromium and if desired a discrete coating of an alloy of chromium on and/or adjacent a cutting edge thereof.

135199. Diamond Shamrock Corporation. A method of preparation of ketoxime carbamates. Comprising reacting the corresponding oxime with phosgene and an appropriate amine.

135200. F. L. Smidth & Co. A/S. Coolers for rotary kilns. (April 8, 1971). A rotary kiln equipped with cooler tubes arranged in planetary fashion around the outlet end of the kiln and rotating with it to receive and cool the product.

135201. The Offshore Company. Drilling platform. [Divided out of No. 129410; ante-dated to November 26, 1970]. In which the means to secure the removable sections each having longitudinal members and sockets and spigots provided between the longitudinal members includes at least one annular groove in each spigot and socket, segments wholly contained within one of the grooves, the grooves in the socket and spigot being in alignment and mating with each other, and means for moving the segments.

135202. Pitman-Moore, Inc. Method for obtaining an antigen preparation of aquine infectious anemia virus. Comprising (a) inoculating an animal with a virus of equine infectious anemia (b) removing an organ from said animal after animal becomes fabrile and (c) extracting said antigen preparation from said organ.

135203. Institutul De Mecanica Fluidelor Si Constructii Aerospatiale. Device for the aerial spreading of solid materials, such as powders, granules or seeds. Comprises a first material receiving part and a second distributing part in the form of a diffuser with a number of flow channels.

135204. Pennwalt Corporation. Purification of gaseous hydrogen chloride. A process for the purification of gaseous hydrogen chloride contaminated with hydrogen flouride which comprises contacting the hydrogen flouride contaminated hydrogen chloride gas with anhydrous calcium chloride to effect substantially removal of hydrogen flouride from the gaseous hydrogen chloride.

135205. Dr. Parampukattil Kerulan Chellappan Pillai and Mr. Susheel Kumar Arya. A method of preparing a conductive glass substrate and glass substrate so prepared. Comprises maintaining a glass substrate at temperature 375°C to 475°C heating a coating composition made of stannic chloride, glacial acetic acid and alcohol to create vapors of stannic chloride and water allowing the vapors to deposit on glass substrate.

135206. Dr. Parampukattil Kerulan Chellappan Pillai. and Mr. Susheel Kumar Arya. A glass substrate having transparency and conducting properties and a method for preparing same. A glass substrate containing silicate compounds, and having a deposit thereon obtained from a mixture of stannic chloride, glacial acetic acid and absolute alcohol to give a glass substrate having transparency and conductive properties.

135207. Dr. Parampukattil Kerulan Chellappan Pillai and Mr. Susheel Kumar Arya. A method for preparing conductive glass substrate and glass substrate so prepared. Comprises maintaining a glass substrate at 375° to 475°C and applying a coating of a coating composition made of stannic chloride, isopropyl alcohol and water by method other than vapor deposition like spraying or brushing.

135208. Dr. Parampukattil Kerulan Chellappan Pillai and Mr. Susheel Kumar Arya. A modified glass. A glass substrate which includes a silicate compound and having a deposit of a mixture of stannic chloride, isopropanol and a solvent such as water.

135209. Dr. Parampukattil Kerulan Chellappan Pillai and Mr. Susheel Kumar Arya. A method of preparing a glass substrate having conducting properties. Comprises maintaining glass substrate at temperature of 375°C to 475°C heating a composition containing stannous chloride and water, allowing the vapours so created to deposit in presence of oxygen or oxygen containing atmosphere on the hot glass substrate.

135210. Varahur Srinivasa Satyanarayana. A device adapted to disconnect a load from a power supply. Comprising a rectifier connected between neutral and earth lines a zener diode connected to said rectifier and an energising coil connected to the rectifier and a first switch operated by when the coil is energized to disconnect the device from the supply.

APRIL 10

135211. Council of Scientific and Industrial Research. Process for making photoconductive cells. Characterized in that the glass or ceramic plate with the sintered photosensitive layer is fired in O_2 to increase the sensitivity of the sintered layer before applying the electrodes to the sintered photosensitive layer.

135212. Council of Scientific and Industrial Research. Improvements in or relating to the production of paraffin wax and lubricating oil fractions from slack wax. Comprises extracting sprayed granules of slack wax with solvent or a mixture of solvents. the extraction being done in three stages by any of the solvents such as (a) ethylene dichloride or trichloroethylene or (b) a mixture of solvents comprising of ethylene dichloride and carbon tetrachloride to obtain (a) paraffin wax free from lube oil and (b) solvent with oil, the said paraffin wax after being steam stripped was treated with concentrated sulfuric acid and bleaching earth.

135213. Council of Scientific and Industrial Research. Inprovements in or relating to plating on steels with a fine layer of metallic chromium and chromium oxide. Comprises in the plating of metallic chromium together with chromium oxide in one operation by electrolysis in a single aqueous solution containing chromium trioxide, sulphuric and with steel base as negative electrode and lead-silver or lead-tin as positive electrode at current densities between 10-50 amperes/dm^2.

135214. Void.

135215. Void.

135216. Mefina S. A. Device for coupling a fly-wheel to a shaft. Block has at least two bores adapted to receive as desired the screw to enable it to be placed in that of the bores which gives the most favourable angle of rotation of the block between the coupling position of the wheel and its uncoupled position.

135217. The Firestone Tire & Rubber Company. Process for producing dilithio hydrocarbons. Comprising heating allyllithium or a hydrocarbon substituted allyllithium which contains allylic hydrogen in the hydrocarbon substituents at a temperature of from 50 to 150°C for 20 to 200 hours.

135218. Plasti-Fiber Formulations, Inc. Roofing composition. A roofing composition comprising an aqueous dispersion of (a) a vinyl acetate and an acrylic acid ester of a lower alkanol or a mixture thereof (b) a fibrous filler and (c) a finely divided pigment.

135219. Plasti-Fiber Formulations, Inc. A method for treating bagasse to separate fibrous components therefrom. Comprises contacting bagasse without prior chemical treatment, with an aqueous solution of an alum.

135220. Void.

135221. Snam Progetti S.p.A. Penicillin or cephalosporin acylase-containing filamentary structures and their use in the enzymatic treatment of penicillins, cephalosporins and derivatives thereof. A filament in which is present at least one penicillin or cephalosporin acylase capable of causing hydrolysis of a penicillin or cephalosporin to the corresponding aminopenicillanic acid or amino cephalosporinic acid, respectively, or acylation of an aminopencillanic acid or aminocephalosporanic acid respectively to form a penicillin or cephalosporin, the or each said acylase being present throughout the filament in finely divided form in a manner such that the or each acylase is retained in the filament when the latter is contacted by a reaction medium containing said substance and that the or each acylase is capable of effecting the hydrolysis or acylation whilst being so retained.

135222. N. V. Philips Gloeilampenfabrieken. Transmission system for the transmission of signals between two terminal stations through a transmission line including repeater stations. Characterised in that the control device is constituted by a control oscillator circuit having an amplitude control for generating control signal for controlling the oscillator start-stop devices in the different repeater stations control signals being transmitted through the transmission line and through the direct current supply by pass circuit to the oscillator start-stop devices in the different repeater stations while by passing the line amplifiers. said oscillator start-stop devices being provided with a cascade arrangement of a selective circuit and an amplitude measuring device and activating each measuring oscillator circuit.

135223. American Cyanamid Company. Process for preparing an aqueous flame retardant finish composition. By reacting 1 mole of tris (hydroxymethyl) phosphine, at least 1 mole of formaldehyde and 1 mole of combined orthophosphoric acid and a carboxylic acid.

135224. Farbwerke Hoechst Aktiengesellschaft vormals Meister Lucius & Bruning. Process for the preparation of unsymmetrical 1 : 2-chromium complex azo dyestuffs. Characterized by heating a mixture of 1-(2′-hydroxy-5′-chlorophenyl)-azo-2-naphthol) and 1-(2′-carboxyphenyl)-azo-2-naphthol with chromium-III chloride in a solvent.

135225. Void.

135226. Void.

135227. Kanubhai Valjibhai Mistry, Champaklal Valijibhai Mistry, Dhirajlal Valjibhai Mistry, Sunilkumar Chandulal Mistry and Deepakkumar Chandulal Mistry. Improvement relating to folding chair. Wherein the size of the seat frame in such that a perpendicular drawn from the frontedge of the seat frame lies within a line joining the bottom of the front legs in the unfolded condition of the chair.

135228. Void.

135229. Void.

135230. Ambitious Gold Nib Manufacturing Company Private Limited. Improvements in or relating to a nib for fountain pens. Characterised in that the tip of the nib is provided with writing edges on two sides, the gap between the slitted portion of nib at one side being minimum while the gap between the slitted portion on the other side is maximum.

April 11

135231. Unilever Limited. A process for the preparation of an instant tea-powder. Comprises combining an extract of green tea or of tea fermented for 10 minutes or less with a tea extract obtained by oxidizing in an alkaline solution the water soluble constituents of unfermented or partly fermented tea and the combined extract is dried.

135232. Rca Corporation. Method of making a semiconductor device. Characterized by doping those portions of film with intended to be retained as patterned layers, with a P type impurity and contacting the entire film with a solvent in which P doped silicon or unsoluble to remove the intrinsic silicon.

135233. Westinghouse Electric Corporation. Liquid cooled rotor for dynamoelectric machines. Including a rotor shaft having a rotor winding lead disposed in a bore of the shaft, an annular passage for the coolant surrounding the leads and means connecting the annular passage with the passages between the winding and then to discharge thereform.

135234. Svenska Rotor Maskiner Aktiebolag. Rotary internal combustion engine. Of the type in which a power rotor has projecting lobes which mesh with matching grooves in a rotary abutment member,

135235. Fmc Corporation. Form coke coated with glan carbon and methods of production. Characterised by cokin the briquettes in presence of a gas containing 10 volum per cent of hydrocarbon vapour, to crack hydrocarbon vapour in presence of coke briquettes and deposit a film of glan carbon.

135236. Fmc Corporation. Coating of reactive form cok by catalytic deposition of glanz carbon. Characterized by heating the precursor green briquettes to at least during temperatures in the presence of a catalyst metal, or salt thereof selected from the group consisting of tin and zinc; adjacent t the surface of the briquettes.

135237. Sulzer Brothers Limited. Defferential gears Driving wheel, bevelgear, planel pinni common carrier, the guide and guiding surfaces.

135238. Tsentralny Nauchno-Issledovatelsky Institut Tekhnologii Mashinostroenia. Method of producing foundry moulds and cores. In which mold boxes or core boxes are filled up with self-hardening moulding sand as a filler, ligno sulphonate of an alkali, alkaliearth metal, ammonia or their mixture as described as a binder and a hardener and holding it for air hardening, characterized in that the hardener is a material containing aluminate of an alkali metal.

135239. Balaram Dwarkadas Nagpal. Improvements in or relating to food warmer device and the like. Consisting of a stand carrying a pair of support members, the lower support members carrying a stove and the upper support member carries a pair of saucepans, one of which is adopted to carry the food to be warmer and the other is adopted to carry water and remain in direct contact with the heat from the stove.

135240. Figurette Equipment Co. Private Limited. Improved portable device for facial steam bath. The base is divided into a top and a lower portion by a horizontally disposed partition formed near the middle of the said cup shaped base, the top portion thereby forming a cup shaped socket for holding water, and also wherein the lower portion is provided with a bulb holder fitted with a pilot lamp. a cathode plate and an anode plate are secured to the top surface of the partition in spaced relation so that the two free ends of the said plates abut on a dowel formed in the top centre of the said portion and a perforated plano-convex plastic disc is fitted over the said cup shaped socket.

135241. Void.

135242. Albert Leimer. Apparatus for the automatic rectilinear guiding of fabric webs. Characterized in that the freewheel clutch is a clutch with a frictional connection action which is brought about by an axial movable ball arrangement the clutch makes are disengaged by an axial operative spring means.

135243. Void.

135244. Leningradsky metallichesky zavod imeni XXII Siezda KPSS. Apparatus for rotation of guiding blades of hydraulic machine. Comprises a regulating ring operatively connected to each of the guiding blades and rotated by means of at least one hydraulic servomotor, each servomotor being disposed externally with respect to said regulating ring.

135245. Fichtel & Sachs AG. A torque transmission apparatus between parts concentrically situated about a common axis. Comprising at least one torque transmission disc having a perforation which surrounds an inner part, the said part having a supporting portion on which the disc is mounted in a tiltable but non-rotatable manner.

135246. E. I. du Pont de Nemours and Company. Method for preparing improved polyamide fibres and film. A method for preparing improved polyamide fibres and film comprising extruding a dope from an orifice through a layer of inert non-coagulating fluid and then into a coagulating bath, the dope comprising a polyamide and a solvent consisting essentially of sulfuric acid chlorosulfuric acid or fluorosulfuric acid and mixtures thereof.

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135247. Rca Corporation. An improved integrated circuit device. Includes both a P channel insulated gate field effect transistor and an N channel insulated gate field effect transistor, characterized by the material of the gate electrode of the P channel insulated gate field effect transistor being predominantly one element or alloy and the material of the gate electrode of the N channel insulated gate field effect transistor being predominantly an element or alloy different from that of the P channel insulated gate field effect transistors.

135248. Void.

135249. Ford Motor Company of Canada, Limited. Improved passenger compartment. Having a floor and ceiling structures with a first, imaginary, vertical plane running along the length of the compartment to divide the same into identical halves and a second, imaginary, vertical plane perpendicular to said first vertical plane running across the width of the compartment to divide the same into identical halves.

135250. Ford Motor Company of Canada, Limited. Guided vehicle power supply system. Includes power supply means, aligning means, an aligning wheel, first structure means for rotatably securing aligning wheel to vehicle for the wheel to contact guide surface of aligning means, and second structure means for resiliently supporting current collector means in engagement with power supply means.

135251. The Coca-Cola Company and Kikkoman Shoyu Co. Ltd. Process for preparing protein products. Subjecting protein to ultrafiltration in the presence of a suitable chemical reagent and thereafter recovering a purified protein.

135252. Oporto Ceramics Limited. Device for severing tiles. (April 13, 1971). Including an upper jaws having a transversely curved groove in its under face, said jaw face inclining downwardly away from the groove on each side to the side edges of the jaw or being convex on each side, and a lower jaw having a shaped upper face or edge to have line engagement with a tile.

135253. Sandoz Ltd. Process for the preparation of triazolyl-ethenyl-phenylene derivatives. Reacting an appropriately substituted 44' bis-(dialkyl phosphono alkyl) diphenyl with a corresponding triazole compound.

135254. Void.

135255. Deutsche Gold-Und Silber-Scheideanstalt Vormals Roessler. Process for the preparation of concentrate hydrogen peroxide. [Addition to No. 128042]. Characterized in that the H_2O_2 crude extraction product from the said process is first strengthened by water distillation in its H_2O_2 content to above 80% and the above 80 per cent concentrate is then brought to concentrations of above 90 per cent preferably above 95 per cent by means of freezing the said 80 per cent concentrate and separating the purer stock.

135256. International General Electric Co. (India) Private Limited. Improvements in or relating to an X-ray machine. Comprising at least one fixed unit and two telescoping units, comprising a pair of rope drums, one end of the rope on the pair of drums being fastened to the two telescoping units, the rope drums being mounted on a shaft driven through a reduction gear.

135257. International General Electric Co. (India) Private Limited. Improvements in or relating to teletherapy simulator. Comprising a column on which is mounted a rail housing, a first arm extending from the rail housing and on this arm is mounted a film cassette and a second arm extending from the rail housing, said arm causing an X-ray apparatus, means provided for causing the said arm to travel along the longitudinal axis of the rail housing, means being provided for causing the arms (provided in two boxes, mounted on a long screw) to travel along the long screw.

135258. Void.

135259. Void.

135260. Void.

135261. Void.

135262. Void.

135263. Kandathil Abraham Chacko. Improvement in or relating to printing types. A printing type wherein the body portion is made of a soft metal and the face portion is made of some hard metal.

135264. Void.

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135265. Franz Plasser Bahnbaumaschinen-Industriegesellschaft m.b.H. Improvements relating to mobile machine for treating the bedding ballast of railway tracks. Ballast excavator has means for continuously monitoring and controlling its depth of penetration and therein a potentiometer acts as a senser to a reference line, the machine being further provided with additional automatic transverse inclination adjusting means.

135266. Void.

135267. Rca Corporation. A method of forming beam leads on a semiconductor device. Comprising conditioning portion of the surface adjacent apertures to accept the deposition of metal layers, then depositing a continuous layer of titanium, a continuous layer of platinum or palladium and a continuous layer of gold on the body, forming an etch resistant coating on said gold layer over predetermined portions of said layers in the desired pattern of the beam leads and removing by etching the unmasked portions of said layers.

135268. Void.

135269. Void.

135270. Uss Engineers and Consultants, Inc. Low-carbon steel sheets with improved magnetic properties. The improvement comprises temper rolling the steel after annealing to effect a plastic elongation of 6 to 10%.

135271. Baldwin Electronics, Inc. A system for transmitting signals representing alarm conditions from a plurality of peripheral stations to a central station. Includes a plurality of peripheral stations which transmit via a radio link, rather than a hard wire link, signals indicative of the identity of a peripheral station where an alarm occurs, as well as the nature of the alarm.

135272. Magyar Aluminiumipari Troszt. Method for the reduction treatment of red mud. Comprises contacting each part by weight of the slag phase with from about 0.4 to about 1.5 parts by weight of burnt lime, cooling the resulting product, leaching the cooled product with sodium hydroxide or sodium carbonate and separating the resulting liquid and solid phases.

135273. Ehsan Ullah Siddiqi. Improvements in or relating to wall-clocks, time-pieces and like spring actuated appliances. Provided with an indicator arrangement such that its spring on bulging due to unwinding becomes visible at the side of the wall-clock, time-piece or like appliance.

135274. F. L. Smidth & Co. A/S. Screw elevators. (April 14, 1971). Comprising at least one conveyor screw which is rotated in an enclosed casing having a bottom inlet for material to be conveyed and an outlet at its upper end.

135275. Shekharendra Nath Das Gupta. A process and apparatus for the preparation of coking coal. Comprises reducing the particle size of coal separating different fraction and blending the different portions separating to obtain coal and blending of different ranks of coals.

135276. Aristovoulos Gedrge Petzetakis. Process and apparatus for making internally calibrated push-on socket ends, having a beading for a sealing medium, on pipes of thermoplastic synthetic material. Wherein thermoplasticized end of the pipe is pushed on to an expander mandrel and a beading tool being moved outwards the pipe end and after cooling being removed from the said mandrel.

135277. Chief Scientist, Research & Development Organisation, Ministry of Defence, Government of India. Process for preparation of an insect and leech repelant composition in the form of emulsion. Process for preparation of an insect and leech repellant composition comprising treating stearic and boric acid in presence of alkalies and thereafter adding to the obtained product a mixture of ortho, meta, and para N, N′-diethyl toluamide and N-N′-diethyl benzamides.

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135278. Council of Scientific and Industrial Research. Novel system for ignition and flame stabilisation in afterburners and duct burners of aircraft engines. A bleed valve when open allows high temperature high pressure gases from compressor or combustion chamber to flow into bleed duct and when closed stops flow of the gases, a bleed duct connects bleed valve to ignition jet orifices, a pilot injector injects fuel into the gases before admitting them into afterburner/common burner/duct burner.

135279. Void.

135280. NL Industries Inc. A monolithic capacitor and method of making them. Which comprises a sintered unitary body having a dense matrix of a dielectric ceramic composition and a plurality of vertically spaced porous ceramic strata in the matrix each stratus having a network of interconnected bores and extending to one of a pair of edge regions of the body.

135281. Compagnie Generale D'Entreprises Electriques. Fixing device for a support element. [Addition to No. 101822]. Comprising a first rigid protuberance limiting a notch co-operating with a first wing of the terminal strip and a second flexible protuberance connected by its lower end to the support element and co-operating with a second wing of the terminal strip, the second flexible protuberance is mounted on a base which fits into the base of the support element and can be separated from this support element.

135282. Void.

135283. The Director. Maharashtra Engineering Research Institute. Chemical grout for water bearing structures Comprises mixing urea 38.6 gms, ammonium chloride 15.00 gms and melamine 2.00 gms in 37 per cent for maldehyde solution at atmospheric temperature and pressure.

135284. Messrs. Kosmek Plastics Manufacturing Limited. A composite lock. Comprising a moulded rotatable latch held in pressure contact against a moulded lock-plate by engagement members.

135285. The Wellcome Foundation Limited. A method of preparation of 2, 4-diamino-5-benzylyrimidines. (April 16, 1971). Reducing by hydrogenolysis of SR^6 group a 2, 4-diamino-5-(subtituted 4-methox-banzyl) 6-alkythiopyrimidine.

135286. Labaz. Process for preparing new benzofuran derivatives. (April 29, 1971). Comprises reacting in the presence of aluminium chloride, the hydrochloride of isonicontionyl chloride or the chloride of isonicotinoyl-N-oxide with a substituted benzofuran.

135287. Toyama Chemical Co. Ltd. A process for porducing antibiotic substance. Comprising reacting an appropriate salt of 6-aminopenicillanic acid or 7-aminopenicillanic acids with three valency phosphorus compounds and then reacting the product obtained with an appropriate reactive derivative of a carboxylic acid.

135288. Void.

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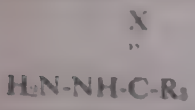
135289. Bayer Aktiengesellschaft, formerly known as Farbenfabriken Bayer Aktiengesellschaft. Process for the production of new 1, 2-dihydro-2-oxo-4-dialkylamino-pyrimido-[4, 5-6-]-quinoxaline-5, 10-dioxides. Comprises reacting a corresponding amidine with phosgene or an alkyl ester of chloroformic acid and reacting the inter-mediate so obtained with a base.

135290. Bayer Aktiengesellschaft, formerly knows as Farbenfabriken Bayer Aktiengesellschaft. Process for the production of new derivatives of 2-formyl-3-carbonamido-quinoxaline-di-N-oxides. Appropriate 2-bis-halogenomethyl-3-carbonamido-quinoxaline-di-N-oxide is reacted with hydroxylamine or with a compound of general formula



$H_2N\text{-}NH\text{-}\overset{\overset{X}{\|}}{C}\text{-}R_3$ in the presence of a diluent and a primary or secondary amine.

135291. Ciba-Geigy AG. Process for the production of biocyclic phosphorus compounds. Reacting an appropriate bis-(3,-5-alkyl-4-hydroxybenzyl) carboxylic acid with the corresponding bis-(4-hydroxymeltyl-1-phospha -2, 6, 7-trioxabicyclo [2, 2, 2] octane in the presence of a basic catalyst.

135292. Ganapathy Bhat. Automatic stirring sprayer. A spraying device with automatic stirring arrangement consisting of an inlet with an inlet valve, a liner with a piston, a stirring outlet valve and stirring outlet, a delivery outlet valve and one or more delivery outlets and a pressure chamber as shown in the figure.

135293. Westinghouse Electric Corporation. Plug-in bus duct with heat dissipation means. Comprising an elongated unitary housing a set of unitary bus bars supported in it and formed to provide to plurality of compact and plug in regions.

135294. International Standard Electric Corporation. An equipment for tesing telephone exchanges. Comprising a computer which works in real time, an electronic adaptor which is connected to the computor when the exchange to be tested, an electromechanical adaptor via which the electronic adaptor is connected to the exchange a memory associated with the computer for .programmes which control the computer, a decoder in the electronic adaptor responsive to each order from the computer to produce electrical signals, first circuit means in the electromechanical adaptor responsive to said signals from the decoder, second circuit means in said electromechanical adaptor which responds to signals from the exchange, said first and second circuits means including relay-controlling circuits, contact scanning circuits and analog digital converters, timing means, a switching unit and signal detectors.

135295. Sidney Schneider. Improved artificial dentures and method of making same. (April 19, 1971). Comprising a dental assembly provided with a gum receiving portion two layers of curable denture forming material located over the former and a shim intermediate.

135296. Industrie Pirelli Societa Per Azioni. Radial cord carcass tyres provided with a sidewall-stiffening structure. (March 9, 1972). Comprises a radial cord carcass constituted by textile cords which extend from one bead zone to the other.

135297. Roussel Uclaf. Process for the preparation of a benzotriazepine. (July 16, 1971). 3 cyano-4-keto-5-p-chlorobenzyl 1-4-5-dihydro-1, 2, 5-benzotriazepine with hydroxylamine hydrochloride.

135298. N. V. Philips Gloeilampenfabricken. Flyback and sawtooth current generator. Characterised in that in the network, further reactances are present which increase the order of the network during the flyback period to a minimum of 6 in such a manner that the network has a third resonant frequency fly which is at least substantially equal to the expression for K=7.

135299. Void.

135300. Leningradsky Dvazhdy Ordena Lenina Metallichesky Zavod imeni XXII Siezda KPSS. Means for switching hydroelectric unit from group power control duty into individual power control duty. Control system is fed with the output voltage available from the individual power pre-setter of the hydro-electric unit being switched into the individual control duty, the output voltage of the individual power pre-setter being compared with the output voltage of the common power pre-setter and the resulting voltage equal to the difference of the voltages being compared, is used to shape the signal for changing the setting of the individual power pre-setter.

135301. Void.

135302. Council of Scientific and Industrial Research. An improved drum-motor. Comprising an external drum mounted on end discs carrying sealed bearing for stub axles, the flanged end of the axles being connected to the stator and the drive from the rotor being transmitted to the drum through suitable gearing.

135303. Council of Scientific and Industrial Research. A process for the production of proteolytic enzyme, bromelain from pineapple. Extracting pineapple with dibasic sodium or potassium phosphate or potassium phoshate buffer and precipitating bromalain by ethyl or n-butyl alcohol or acetone at 5°C to 15°C and drying bromelain is reduced pressure.

135304. Council of Scientific and Industrial Research. An improved die for making glass headers. Characterised in that the portion of the glass tube in the hot zone is minimized by replacing a part of the die base with a ceramic base, thereby ensuring that the glass tube would not collapse even when no plug is placed in it.

135305. New Standard Engineering Company Limited. Improvements in or relating to device for mounting suction tubes on front rollers of textile spinning machines. Comprises a permanent magnet, a wear shoe fitted on the permanent magnet and means for securing the permanent magnet together with the wear shoe to the suction tube.

135306. Crompton Greaves Limited. Improvements in or relating to electric ceiling fan blades. A ceiling fan blade having throughout its entire length an action composed of two flat portions, one horizontal and the other slanting, both portions being joined by a smooth curve of a constant radius and wherein the width of the slanting portion of the blade near ceiling fan motor is more than near that of the corresponding portion at the end remote from ceiling fan motor.

135307. Crompton Greaves Limited. Improvements in or relating to electric fans. Comprising of an internal stator and external rotor carrying fan blade or blades and arranged coaxially with the stator characterised in that the stator is arranged to be supported on a shaft or stationary hub which is mounted on the shaft and wherein the rotor of the fan motor is made integral with bearing housings on one side of the stator.

135308. Crompton Greaves Limited. Improvements in or relating to electric ceilling fans. Comprising of an internal stator and external rotor carrying fan blade or blades and arranged coaxially with the stator wherein the stator is arranged to be supported on a shaft or stationary hub mounted on the shaft which stationary hub incorporates receptacles to carry lighting or perfuming systems, condensers and terminal blocks and the rotor of the fan motor being either fixed separately or die-cast integrally with a bearing braket.

135309. Crompton Greaves Limited. Improvements in or relating to electric fans. Comprising of an internal stator and external rotor carrying fan blade or blades and arranged coaxially with the stator veterein the stator is arranged to be supported on a shaft or stationary hub mounted on the shaft characterised in that rotor of the fan motor is fixed to or die-cast to a bracket and a single piece bearing housing accommodating two bearings is connected to the bracket.

135310. Crompton Greaves Limited. Improvements in or relating to suspension system in electric fans. Comprising a suspension tube characterised in that the suspension tube is adapted to hold condenser (2) and terminal block (3) either at the shackle end or at the fan motor end in receptacles formed on the tube itself which is further adapted to be directly coupled to the fan shaft thus eliminating separate coupling.

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135311. Void.

135312. Void.

135313. (1) Madan Mohan Dey and (2) Madhu Sudan Dey. Improvements in or relating to miner's electric torches. Comprising a bulb the socket end of which is acted by a spring housed within an extension sleeve to contact the battery terminal, the other end of the bulb contacting a seat on the inner face of the glass covering the reflector.

135314. Mefina S. A. Sewing machine. The lateral displacement of the needle are actuated by a cam, the cam ensuring the pivoting of the cradle by means of a transmission element, said element comprises a lever hinged to the frame and provided with a feeler, a rod hinged to the cradle, and an intermediate element and a ramp.

135315. Nitto Kagaku Kogyo Kabushiki Kaisha (also known as Nitto Chemical Industry Co. Ltd.) and Mitsubishi Rayon Kabushiki Kaisha (also konwn as Mitsubishi Rayon Co. Ltd). Process and Apparatus for the production of acetone cyanohydrin. Subjecting crude acetone cyanohydrin at first to flash distillation and subjecting the undistilled portion to a second distillation step, at least one portion of the second distillation is contacted with crude acetone cyanohydrin containing the alkalinecatalyst.

135316. The Bendix Corporation. Process for making semimetallic arcuate lining segments in particular for breakes. Comprises the steps of mixing graphite, metal and organic binder, filling a pan with said mixture to a level that is deeper towards the two ends of the pan than middle portion, heating the pan to a temperature higher than the flow temperature but less than the cure temperature of the organic binder, pressing said heated material and heating it to a temperature higher than cure temperature of organic binder.

135317. Sultan Singh Jain. A system pertains to a remote control cum automatic slide projector and remote control slide projector. Characterised by a source of high intensity light which after being reflected passes through an objective, alide and eye piece to from a magnified image of the slide on a screen wherein the said slide already loaded is a magazine or a slide carrier is moved either by a motor or by a driving spring to a place in between the objective and eye piece by automatic or remote control device.

135318. Wanson (India) Private Limited. Improvements in or relating to pre-drying of tea leaves and pre-heating system therefor. Producing indirectly heated stream of air at a controlled temperature and the throwing said hot air onto said tea leaves in a direction from above the conveyor unit downwards, said conveyor unit carrying the tea leaves.

135319. Kabushiki Kaisha Akita. Molding method and apparatus. The invention relates to a molding method and a molding apparatus wherein at least one shielding member is brought in contact with a surface of at least one pattern, heat resisting materials is filled in the space, pressure is rendered negative, so as to drawn the shielding mold member by suction toward said materials into intimate contact therewith, pattern is removed and the molten metal is poured into the cavity to produce a molded article.

135320. Saint-Gobain. Laminated glass sheets. A laminate comprising a silicate glass sheet, a sheet of an extensible plasticised tear-resistant plastically deformable plastics material such as herein described of a thickness ranging from 0.5 to 1.5 mm adhered to one face of the glass sheet and a protective layer on the face of the plastics material remote from the glass sheet, the protective layer being composed of soft plastics composition capable for flowing plastically to return spontaneously to its underformed state after deformation.

135321. F. L. Smidth & Co. A/S. Methods of assembling planetary cooler tubes on rotary kilns. (April 19, 1971). Uniting to the cooler tube a first shell section of the junction piece having two open ends substantially perpendicular to one another, assembling two telescopic elements of a second shell section in their desired relative position in relation to the outlet in the klin shell, welding them together in this desired relative position, lining or completing the lining of the assembled second shell section, and uniting this section to the first.

135322. International Teleprinter Corporation. A serial printer having a carriage incremental stepping mechanism. (April 19, 1971). Serial printer comprising a carriage, guide means to guide the carriage, a carriage return spring to return the carriage, three solenoid controlled pawls mounted on the carriage, three linear racks with ratchet teeth, two of them oscillating in opposite phases and third are stationary, solonoids controlling engagement of said pawls, electric circuit to accept incoming character signals for controlling operation of pawl.

135323. Sandoz Ltd. A process for the resin finishing of cellulosic textiles with an N-methylol compound. A process for the resin finishing of cellulosic textiles with a resin forming methylol compound which comprises using an aqueous solution comprising said compound, catalyst and sodium or potassium salt or a mixture thereof.

135324. N. V. Philips Gloeilampenfabriken. Method of manufacturing a mixture for a borosilicate glass. Characterized in that quartz powder is used having a selected particle size at least 90% of which is between 30 and 120 microns.

135325. N. V. Philips Gloeilampenfabriken. Television display apparatus employing convergence correction. Characterized in that for correcting residual convergence errors which occur at areas other than along the axes sand in the corners of the displayed image while using deflection coil halves substantially without anisotropic astigmatism the raster correction circuit also includes a current source which generates a substantially sinusoidal convergence correction current of line frequency flowing through the deflection coil-halves with an amplitude varying at the field frequency which is dependent on the instantaneous intensity of the field deflection current said correction current in one coil half flowing in the same direction and in the other coil half flowing in a direction opposite to that of the deflection current.

135326. Sarabhai Electronic Research Centre. A transmitter capable of transmitting monochrome video signals and a plurality of audio signals. [Divided out of No. 131794; ante-dated to June 18, 1971]. Comprising channel having a frequency modulator and an identification circuit, an amplitude modulator connected to a common adder circuit.

135327. Void.

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135328. Unilever Limited. A process for the preparation of an instant tea powder. (April 26, 1971). A process for the preparation of an instant tea powder in which an aqueous extract of green tea is combined with anaqueous tea extract obtained oxidising the water soluble constituents of unfermented tea and the combined extract is dried.

135329. The Goodyear Tire & Rubber Company. Improvements in screen member. Comprises a backing member having a shore. A hardness of 60 to over 100 and having a covering member of a polyurethane of about 1/8 to 7/8 inch thick.

135330. Bayer Aktiengesellschaft, formerly known as Farbenfabriken Bayer Aktiengesellschaft. Process for the manufacture of polyazo dyestuffs. Process for the manufacture of polyazo dyestuffs characterised in that tetrazotised amines are coupled, in optional sequence, with suitable coupling components and dyestuffs.

135331. Warner-Lambert Company. Process for preparing 5-hydroxy-1-tetralone. A process for preparing 5-hydroxy-1-tetratone which comprises reacting 1, 5-dihydroxynaphthalene with gaseous hydrogen in the presence of a palladium reducing catalyst and equimolar quantity of an alkali metal hydroxide.

135332. Joseph Lucas (Industries) Limited. Self cancelling direction indicator switches. Includes means on operating member for displacing pawl member from a withdrawn position to an advanced position, resilient means acting an pawl member to oppose such displacement thereof by the operating member, and delent means on the operating member engageable by the pawl member.

135333. Peter Aloysius Dunbar. A mechanism and method to fill bags with hot semi-fluid liquifiable material. Comprising introducing into the canister an empty bag with its partially open top appearing just out of the canister and with its bottom resting on the drum, the opening of the bag being sealed after it is filled to a predetermined measure, the canister being thereafter tilted by pulling its handle.

135334. Void.

135335. Farbwerke Hoechst Aktiengesellschaft vormals Meister Lucius & Bruning. Process for dyeing and printing textile materials containing acid groups with basic dyestuffs. Comprises treating the textile material with a dyestuff of formula I, with a neutral or acidic liquor printing paste.

135336. Donetsky Filial 'Vnipichermetenergoochistka'. An absorption refrigerating installation. Comprising a main evaportor, a main absorber, a secondary evaportor and a secondary absorber.

135337. Dana Corporation. Planetary transmission. Characterised in that the input shaft extends completely through the housing and output shaft extends from interior to exterior of housing sun gears secured to the output shaft, planet gears supported by carrier, ring gears supported within the housing, selectively operable means for sequentially locking a particular ring gear.

135338. Robert Bosch GMBH. Improvements in and relating to a liquid filter. A liquid filter element with at least one spirally coiled filter material strip forming three spiral chambers, a first and a second chamber of which are separated from each other, and are disposed opposite each other and are open relative to oppositely disposed axial ends of the filter element, while a third enclosed chamber adjoins the other two chambers so that medium to be filtered and flowing from one axial end to the other axial end of the filter element must flow twice through the strip of filter material.

135339. Cassella Farbwerke Mainkur Aktiengesellschaft. Process for the production of monoazo dyes. Comprises diazotizing an amine and coupling the resulting diazonium compound.

135340. Tekeda Chemical Industries, Ltd. Process for the preparation of validamycins C, D, E and F and validoxylamines A and B. A process for producing an antibiotic selected from the group consisting of validamycins C, D, E and F, and validoxylamines A and B which comprises cultivating a validamycin-group producing strain belonging to the genus Streptomyces and recovering same from the resulting broth.

135341. Stotz & Co. Stiffening insert for parts of articles of clothing and a process for the manufacture of the same. It consists of a flat textile material which is coated with a stiffening substance which consists of a reticulated or heat reticulated compound.

135342. Spiroll Corporation Ltd. Machine for manufacturing hollow core structures of concrete and the like. Comprising a mould, a detachable means, vibration means, core form, means to engage or retract said core form and water extraction means.

135343. Void.

135344. Montecatini Edision S.p.A. Process for preparing synthetic rutile starting from ilmenite. Comprises treating ilmenite, preheated at to 550-750°, in a fluid bed at 550-750° with reducing gas containing Co, H_2 cr their mixtures till reaching in the ore a Fe II : Fe III ratio higher than 5, leaching the reduced ore with HCl are filtering the a solid phase of synthetic rutile.

135345. Montecatini Edison S.p.A. A Process for the preparation of catalysts for the polymerization of olefines. Reacting a hydride with the product obtained through the reaction of an organic magnesium halide with an halogenated titanium compound.

135346. Registrar, Indian Institute of Technology, Prof. Sudhir Kumar Bhattacharyya, Dr. Dilip Kumar Nandi and Mr. Asish Kumar Bhattacharyya of I.T.I. Kharagpur. A new device for the production of diacetone alcohol from acetone. Comprising a heating mantle, a distillation flask, soxhlet apparatus and a fractionating condenser.

135347. Council of Scientific and Industrial Research. A process for the production of compressed and active dry baker's yeast by molasses fermentation. Comprises cultivating a strain of Saccharomyces cerevisiae in an aqueous nutrient medium of PH ranges 5.0 to 5.5, containing molasses, assimilable sources of nitrogen, and corn steep liquor.

PART II

Subject-Master Index in respect of Applications for Patents, filed from January 1, 1971 to April 19, 1972

(Nos. 129811—135347)

This index covers all the published Applications included in the Chronological List in Part I of this volume. The entries are given by the Serial Numbers of the Applications; the date and other particulars may be found by reference to the List. This index forms a continuation of the Indexes contained in the Consolidated Subject-Matter Index 1912-1932 and the Patent Office Journals published since 1934.

Each main class is distinguished by a symbol such as "LX(1)."

A

Abrading, *See* POLISHING, ETC.

Abrasive tool, resin bonded, *See* POLISHING, ETC.

Acid esters, preparation of, *See* CARBON COMPOUNDS, ETC.

Acrolein, preparation of, *See* CARBON COMPOUNDS, ETC.

Acrylic filaments and fibres making, *See* CELLULOSE, ETC.

Acrylonitrile, *See* CARBON COMPOUNDS, ETC.

Acylation of allyl hydroxy group in steroids, *See* CARBON COMPOUNDS, ETC.

Adhesive crayons, *See* ADHESIVE MATERIALS, ETC.

ADHESIVE MATERIALS AND COMPOSITIONS (OTHER THAN RUBBER). XLII(1).

Compositions (for joining surface to surface by a thin layer excepting gelatine gum and starch). 129912, 131139, 131312, 131433, 132711, 132397, 132908, 134261.
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  Gums and like plant products preparation of. No case.
  Sizes and finishes for paper and textile materials other than resin sizes. No case.
  Starch, dextrine and gluten preparation of 130454, 132654, 133984.
  Adsorber for gases, *See* CHEMICAL PROCESSES, ETC.
  Adsorption purification process, *See* CHEMICAL PROCESSES, ETC.
  Adsorption purification process, *See* OILS, ETC.

ADVERTISING AND DISPLAYING APPARATUS (OTHER THAN MONOGRAMIC APPARATUS). XLI (I).

(*This heading does not include articles of utility which are adapted to carry advertisements*).

Advertising and signally monogramic apparatus for, *See* SIGNALS (MISCELLANEOUS).

Moving and changing—
  Illuminated and optical apparatus. No case.
  Other than illuminated and optical apparatus. No case.

Other than moving—
  Attached advertisments on vehicles and miscellaneous articles. No. case.
  Boards and posters. No case.
  Smoke and sky signs, *See* SIGNALS (MISCELLANEOUS).
  Miscellaneous. 133291, 133914.

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  Apparatus other than siphon bottles. 134689.
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(*This heading does not include construction of instruments fitted on aircraft for indicating, observing and recording purposes or for use in aerial warfare of articles of furniture and wearing apparel*).

Aircraft tyre, *See* WHEELS, ETC.

Details and accessories apart from general design—
  Controlling, steering and balancing. No case.
  Fuselage and body construction. No case.
  Launching, and landing including landing gear construction. 130217, 130632, 131497.
  Miscellaneous details. 132037, 132577, 134664, 135278.
  Parachutes. 131239.
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  Propelling. 134226, 134227, 135278.
  Heavier-than-air aircraft, general design of. No case.
  Lighter-than-air aircraft, general design of 130530.
  Aerosol type product, dispenser, *See* SPRAY, ETC.

AGRICULTURAL IMPLEMENTS. I(I).

(*This heading includes only cultivating gardening and harvesting appliances. For farmyard appliances, see* ANIMALS, ETC).
  Cultivating implements. 130192, 131048, 131359, 132231, 132645, 132849, 134492.
  Gardening appliances. 132849, 132940.
  Harvesting appliances 131107, 132134, 133286, 133287, 133288, 135180.

Miscellaneous agricultural implements 130275, 131189, 132405 134841, 135072.
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(*This heading does not include cooling, drying and heating of air and gases, and ventilations*).

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  Miscellaneous. 124422, 134731.
  Piston pumps. 129965, 132027, 132028, 132029, 133197, 134181, 135126.
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  Liquefying, solidifying and revaporising. No case.

AIR AND GASES, TREATING—contd.

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Air cooling installation for, *See* COOLING, ETC.

Air deporlarised batteries electric, *See* BATTERIES ETC.

Air gap monitoring device for electrical machines, *See* DYNAMO ELECTRIC, ETC.

Air rifles, *See* SMALL ARMS, ETC.

Air separators, *See* SIFTING AND SEPARATING.

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130847, 131019, 131878, 133422, 134265, 135196.

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ALARMS, FIRE AND TEMPERATURE. XXXIX (1).

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Aliphaitc amides, preparation of *See* CARBON COMPOUNDS, ETC.

Alkali metal benzoate preparation of, *See* CARBON COMPOUNDS, ETC.

Alkali metal phosphates, *see* CHEMICAL COMPOUNDS, ETC.

Alkaloids, separation of, *See* CARBON COMPOUNDS, ETC.

Alkylquinazoles, *See* CARBON COMPOUNDS, ETC.

ALLOYS. XXXIII (1).

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Containing barium, calcium, magnesium and strontium, (but not aluminium and iron). No case.

Containing chromium (but not containing aluminium, barium, etc., and iron). 133640, 134694.

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Containing molybdenum, nickel, potassium, sodium tantalum titanium tungsten uraneum, vanadium, zinc, zirconium, copper, lead, manganese and other miscellaneous metals (but not iron, aluminium, barium, etc., and chromium). 131044, 132339, 132466.

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Alumina, preparation of, *See* CHEMICAL COMPOUNDS, ETC.

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Aluminium fluoride preparation of, *See* CHEMICAL COMPOUNDS, ETC.

Aluminium trifluoride, *See* CHEMICAL COMPOUNDS, ETC.

Amides, *See* CARBON COMPOUNDS, ETC.

Amides, preparation of, *See* CARBON COMPOUNDS, ETC.

Amido alkane sulfonic acid, *See* CARBON COMPOUNDS, ETC.

2-Amino-1-butanol isomers, separation of, *See* CARBON COMPOUNDS, ETC.

6-Amino penicillanic acides, *See* CARBON COMPOUNDS, ETC.

Ammonia, *See* CHEMICAL COMPOUNDS, ETC.

Ammonia synthesis gas, dehydration of, *See* CHEMICAL COMPOUNDS, ETC.

Ammonium carbonate, *See* CHEMICAL COMPOUNDS, ETC.

Ammonium sulphate, *See* CHEMICAL COMPOUNDS, ETC.

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Cartridge loading, unloading, and finishing off. 130822, 134203, 134973.

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Packing, storing and handling ammunition, (special devices for). 129884, 134203.

Projectile fuses and apparatus for setting. 131101,

Projectiles. 129932, 130392, 132946, 134225, 134609.

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Anhydrides small pox vaccine, *See* DISINFECTIONS, ETC.

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ANIMALS, HOUSING, FEEDING, CATCHING, DESTROYING AND FARMYARD APPLIANCES. I (2)

Destroying appliances (other than traps). No case.

Guards for preventing access of insects and animals. 134224.

Miscellaneous. 130428, 131512, 131553, 132491, 132534, 133985, 134478, 134667.

Traps for catching animals and insects. 131586.

ANNEALING, TEMPERING AND MODIFYING CHARACTER OF METALS. XXXIII (2).

Annealing boxes and like receptacles for heat treatment. 129936, 130109, 134621, 134626.

Cementation, (including case hardening, malleabilising and otherwise modifying chemical characters of metals). No case.

Heating and cooling, treatment by. 129936, 131097, 131801, 132451, 132530, 132531, 132659, 133404, 133700, 134626, 135270.

Miscellaneous, 130109, 133061, 133722, 134597.

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Anode rod for electrolysis, *See* ELECTROLYSIS, ETC.

Anthelmintic composition, *See* DISINFECTING, ETC.

Anthraquinone, *See* CARBON COMPOUNDS, ETC.

Anthraquinone derivatives, *See* CARBON COMPOUNDS, ETC.

Anthraquinone dyestuff, *See* CARBON COMPOUNDS, ETC.

Anthraquinone dyestuffs, preparation of, *See* CARBON COMPOUNDS, ETC.

Anti-rust and scale composition, *See* INCRUSTATION, ETC.

Anto dazzle device for road vehicles, *See* LAMP CHIMNEYS, ETC.

Apparatus for drying tea, *See* DRYING, ETC.

Apparatus for polycondensation, *See* CHEMICAL PROCESSES, ETC.

Apparatus for preparing linear polyesters, *See* CHEMICAL PROCESSES, ETC.

Apparatus for testing permanent way, *See* RAILWAY, PERMANENT WAY, ETC.

Arc furnaces, *See* HEATING BY, ETC.

ANNEALING TEMPERING AND MODIFYING CHARACTER OF METALS—(contd.)

Aromatic hydroxyaldehydes, preparation of, *See* CARBON COMPOUNDS, ETC.

Artificial paper, preparation of, *See* PAPER, ETC.

Atomizer, liquid distributor, *See* SPRAY, ETC.

Atropine, *See* CARBON COMPOUNDS, ETC.

Automatic controllers, electronic, *See* ELECTRIC SIGNALLING, ETC.

Automatic motor controlling systems, *See* MOTOR CONTROL SYSTEMS, ETC.

Azines, *See* CARBON COMPOUNDS, ETC.

Azodyes, *See* CARBON COMPOUNDS, ETC.

Azodyes, metal complexes of, *See* CARBON COMPOUNDS, ETC.

Azodyes of low solubility, preparation of, *See* CARBON COMPOUNDS, ETC.

Azo dyes preparation of, *See* CARBON COMPOUNDS, ETC.

Azodyes, water unsoluble, *See* CARBON COMPOUNDS, ETC.

Azo dyestuffs, *See* CARBON COMPOUNDS, ETC.

Azo dyestuffs, preparation, of *See* CARBON COMPOUNDS, ETC.

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B. methoxy aldehydes, preparation of, *See* CARBON COMPOUNDS, ETC.

BAGS, PURSES, SACKS, PORTMANTEAUX, BASKETS AND WICKERWORK. XL(1)

Bags, sacks wrappers and like relatively flexible packages (other than of paper). 129947, 130145, 130376, 132287, 132920, 133589, 134401.

Baskets woven crates and wickerworking. 132593.

Envelopes, postal wrappers *See* Paper bags, etc.

Hat boxes *See* Portmanteaux, etc.

Holdalls *See* Bags, etc.

Knapsacks *See* Bags, etc.

Leather purses *See* Portmanteaux, etc.

Luncheon baskets and picnic fitted, *see* Portmanteaux, etc.

Mails bags *See* Bags, etc.

Paper bags, wrappers and like (including making envelopes). 129947, 130062.

Plastic bags, *See* Bags, etc. (other than paper).

Portmanteaux, suitcases. bags and like relatively non-flexible article carriers. 130245, 130376, 132262.

Ball grinding device, *See* POLISHING, ETC.

Ball valve, seating assembly, *See* VALVES, ETC.

Balun *i.e.* device for matching an unbalanced coaxial transmission line to a balanced two wire line, *See* TELEGRAPHS, ETC.

Barlead tape, metallic manufacture of *See* METAL WORKING.

Basic azo dyes, *See* CARBON COMPOUNDS, ETC.

Battery charging system, *See* ELECTRIC SUPPLY, ETC.

BATTERIES ELECTRIC. LVIII (1)

Accumulators.—

- Details, unclassified 130483, 130485, 130988, 131540, 131943, 132170, 132274, 134251.

Electrodes, separators and like components, forms and arrangement of 129817, 130013, 130123, 130483, 130621, 130788, 130796, 131943, 133856, 133960.

- Electrolytes for charging. 133556.
- Dry cells, 129940, 131680, 131698, 132277, 133511, 133587. 134760, 134853.
- Electrodes of dry cells, form of *See* Dry cells.
- Electrodes of primary cells, form of *See* Primary cells.—(Electrodes, etc.) 129940

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Miscellaneous. 130988, 131540, 132423, 133382, 133560, 133598 133960.

- Primary cells, other than dry cells—
- Components other than electrolytes, depolarisers and electrodes, 130306, 131183.
- Electrolytes, depolarisers, and electrodes forms and arrangement of 129940, 130788, 131183, 132623, 133960, 134607, 134853.

Primary dry cells, *See* Dry cells.

Secondary battery with hydrogen-oxygen recombining devices, *See* Accumulators—(Details, etc.).

BEARINGS AND BEARING SURFACES. LIV (I)

(*This heading does not include, jewel bearings, for which furniture, See* CLOCKS, ETC., *Furniture castors are indexed under* FURNITURE).

- Axle boxes, railway vehicle. No case.
- Ball bearings 132171, 134457
- Bearings, other than ball, roller and axle-boxes 132009, 132767, 133526, 134087, 134088, 135055.

Machines for lapping or polishing bearing balls with lapping compound, *See* POLISHING, ETC.

- Miscellaneous, details applicable to bearings in general. 130365, 130826, 132171, 133361, 134100, 134284, 135087
- Mountings for bearings, *See* Miscellaneous.
- Roller bearings.130297, 131232.
- Seals for bearings, *See* Miscellaneous, etc.
- Thrust bearings, *See* Bearings, etc.
- Bed for vehicles, *See* FURNITURE.

BELLS, HORNS, WHISTLES AND THE LIKE LX (1).

(*This heading includes only the construction of bells and horns etc. Arrangement of bells etc. for definite purposes are indexed only under headings for such purposes, such as* SIGNALS MISCELLANEOUS, ELECTRIC SIGNALLING, ETC).

- Bells. No case.
- Diaphragam, plate, rod and tube vibrators (excepting PHONOGRAPHS, ETC, TELEPHONES, ETC). 130525.
- Fog and like warning horns (other than diaphragm, plate, and rod vibrators). No case.
- Sound magnifying and directing appliances. No case.

Whistles No case.

Belt drives, *see* MECHANISM, ETC.

Benefaction of phosphate rocks, *See* ORES, ETC.

Benefaction of phosphate rocks, *See* WASHING, ETC.

Benzamide derivatives, *See* CARBON COMPOUNDS, ETC.

Benzene phosphoric acids, preparation of, *See* CARBON COMPOUNDS, ETC.

Benzimidazole carbamates, *See* CARBON COMPOUNDS, ETC.

Benzodiazepine derivatives, *See* CARBON COMPOUNDS, ETC.

130711, 132671, 132672, 132726, 133207, 133276, 133332.

Benzodiazepines, *See* CARBON COMPOUNDS, ETC.

Benzoic acid esters, *See* CARBON COMPOUNDS, ETC.

Benzoquinones, *See* CARBON COMPOUNDS, ETC.

Benzoxanthene and benzothioxanthene dyestuffs, preparation of. *See* CARBON COMPOUNDS, ETC.

Benzoyl-benzoic acid, *See* CARBON COMPOUNDS, ETC.

Benzylthiol carbamic acid esters *See* CARBON COMPOUNDS ETC.

Beverage from palm juice, *See* BEVERAGES, ETC.

BEVERAGES, MALT PRODUCTS AND ORGANIZED FERMENTS (OTHER THAN AERATING BEVERAGES XIV (2).

This heading does not include making of tea coffee and like (beverages for which See DECOCTIONS, ETC. Milk and cream are indexed under FOOD, ETC. *Steps in the process for the production of beverages involving improvements in cooling, heating, filtering etc., are indexed under the headings denoting such operations.)*

Beverages (including alcoholic beverages produced by fermentation).—
  Ageing, maturing and purifying (other than tea, coffee and like infusions, making and preparing). 132923.
 Fermenting. 130679.
 Fruit juices, extracts and syrups, lemonades. 130959.
  Materials and compositions. 130290, 131804, 132923.
  Wort producing and treating. No case.
  Fusel oils. No. case.
  Malts and malting and malt extracts compositions. No. case.
  Miscellaneous. 134698.
  Yeast and other organised ferments (other than Bacteria, cultivating). 132412, 133167, 135347.
Billets, casting *See* CASTING METALS.
Billets, shearing, *See* METAL WORKING.
Binder composition, *See* ADHESIVE, ETC.
Bipyridillium salts, *See* CARBON COMPOUNDS, ETC.
Bis-(triazylamino)—stilbene sulphonic acid, *See* CARBON COMPOUNDS, ETC.

BITUMINOUS EMULSIONS. XXVII (I) No case.

Blasting composition, *See* EXPLOSIVES, ETC.
Blasting explosive compostions, *See* EXPLOSIVES, ETC.
Bleaching of stains from fabrics, *See* DYEING, ETC.
Blocking sperm flow from testis, *See* MEDICAL, ETC.
Body support cushion, *See* FURNITURE
Boilers or steam generators, *See* STEAM-GENERATORS

BOLTS, STUDS, NUTS, WASHERS AND RIVETS. LXIV(I)

Bolts, studs, nuts and washers, construction of (other than those modified for locking).
  130448, 132067, 133577, 134050, 134283, 134577.
 Locking by.—
  Devices, not otherwise provided for 131253. 131348, 133577.
  Grip between threads of nuts and bolts only. 132417, 134160, 134177.
  Keys, pawls, rollers, balls coiled springs and like. 134160.
  Washers. No case.
 Miscellaneous 132638, 133577, 134177, 134283.
 Rivets. 131348.
 Screw sockets and bolt-hole bushes (including sockets and plugs for wood screws and nails). No case.
Bonded glass fibre products, *See* GLASS MANUFACTURE.
Bonded glass product, *See* GLASS, ETC.

BOOKS, STATIONERY, SEALS, CIPHERS AND EDUCATIONAL APPLIANCES XLII (2)

(*Loose leaf books are indexed under* FILING).
books binding, *See* Books, etc.
Books, mercantile, forms and like. 132218.
envelopes, making, *See* BAGS, ETC.
globes and orreries *See* Stationery, etc.
indexing and cataloguing *See* Books, etc.
maps and charts *See*, Stationery, etc.
models *See* Stationery, etc.
Stationery, wafers, and seals, and codes and educational appliances (including albums, picture and picture frames). 129947, 131527, 131886, 132686, 133011, 133012, 134594. 134756.
 teaching machines, *See* Stationery, etc. 133011

BOOTS AND SHOES LXVI (I)

(For cutting and punching operations on shoe parts before assembling, *See* CUTTING, ETC.)
Apparatus for making and repairing. 130929, 131679, 132552, 132630, 133284, 134491.
 Construction of (including methods of making) . 130097, 130929, 132035, 132062, 133284, 133545, 135067.
 Protectors, trees and other accessories for 135078.
Boring bar insert, *See* METAL WORKING.
Boron nitrides, *See* CHEMICAL COMPOUNDS, ETC.

BOTTLES, JARS AND LIKE VESSELS XL (2)

(*This heading comprises only vessels of glass and like vitreous materials, earthenware and stone-ware. Cold and heat retaining vessels are indexed under* COOLING. *Capsules, medical and like are indexed under* DISINFECTING. *Cruets and condiment receptacles are index ed under* TABLE ARTICLES *Siphon botles are indexed under* AERATING)
130099, 130431, 134626.
bottling, *See*, STOPPERING, ETC.
closing, *See* STOPPERING ETC.
opening, *See* STOPPERING, ETC.
siphon bottles, *See* AERTING, ETC.
washing, *See* WASHING AND CLEANING.

BOXES AND CASES XL (3)

(*This heading includes only constructions, fittings and details of containers for displaying storing and transit of articles and materials. Casings intimately associated with particular articles and not of interest as containers for other articles Such as Clock cases are indexed under the headings for the articles*).
 Apparatus for making and finishing boxes and cases. 130232, 130307.
 Boxes, and cases, other than folding match and money boxes and letter boxes. 131835, 132901, 134826, 134951, 134967.
 Cases for card, tickets, stamps and like. No case.
  Coffins. No case.
 Folding, collapsible or knock down cases and crates. 131572, 131702.
 hat boxes *See* BAGS, ETC.
Letters boxes and like. No case.
 Match boxes, cigaretee boxes and like boxes of drawer and shell type. No case.
Miscellaneous 131297, 134561.
 Money boxes, specially designed for money. No. case

BRAKES AND RETARDING APPARATUS LV.

Actuated by hand or mechanical power (other than fluid pressure or electric, not forming part of the brake.) 129852, 130135, 130535, 130539, 130835, 130859, 131339, 131488, 132556, 132588.
 Brake block, shoes and like energy absorbing elements.
 129920, 130042, 130085, 130116, 130135, 130404, 130769, 130890, 131427, 131488, 131619, 131890, 132306, 132556, 133270, 133380, 134889, 134890, 135316.
Electric and magnetic brakes 130724, 130985, 131346, 133374.

electrically controlled fluid pressure systems *See* Fluid pressure, etc.
electrically operated indicators for visual indication, *see* ELECTRICAL SIGNALLING, ETC.
Fluid pressure actuated.—
  Cylinders, vacuum chambers, reservoirs and their appartenances. 130592, 130790, 131881, 131979, 132383, 132544, 133226, 133409, 133944, 134049, 134150·
  Drivers and like valves (including emergency equalising and feeding valves). 130592, 131294, 131384, 132047, 133838, 133839.
  Electric control. 131110, 131204, 132197.
Systems, details other than cylinders, valves and electric control. 130724, 130985, 131488, 131511, 131565, 131828, 131891, 131978, 131979, 132047, 132111, 132157, 132544, 132573, 133380, 133514, 134022, 134518, 134665, 134738.
Force transmitting and equalising arrangements. 131059, 131293, 131384, 132058, 132544, 132556, 132573, 132737, 133226, 133514, 134022, 134049, 134890.
friction applying elements, *See* Brake block etc.
  Miscellaneous. 129849, 129852, 130042, 130085, 130859, 131511, 131885, 132573, 133477, 134120, 134518, 134605, 134889, 135018.
  servo-motors or boosters for brakes *See* Miscellaneous.
Breking arrangements for flexible connecting elements, *See* LIFTING, ETC.
Breaking tea leaves, *See* TEA MANUFACTURE.
BRICKS, BLOCKS SLABS TILES AND POTTERY XXV (1)
Blocks, slabs and tiles (other than compound). 131124, 131470, 131706, 131912, 132064, 133116, 133354, 133557, 133584, 133805, 134327, 134398, 134603, 134714.
Compositions and processes of making, blocks, slabs and tiles. 130349, 130373, 130543, 131440, 132263, 132327, 132445, 132494, 133557, 134398, 134714, 134908, 135280, 135342.
Compound or composite blocks, 131470, 133354, 134714. 135280.
enamelling and enamels *See* GLASS MANUFACTURE.
  Miscellaneous 132064, 134714, 135280.
  Pottery, manufacture of 132070, 132190.
Brilliant, *See* STONE CUTTING, ETC.
Briquetting ores and the like, *See* ORES ETC.
Briquetting powdered materials, *See* ORES, ETC.
Briqutting powdered minerals *See* ORES ETC.
Brush, *See* BRUSHING, ETC.
BRUSHING AND SWEEPING. XLIII(L) 129864, 130633, 131426.
BUILDINGS AND STRUCTURES XXVI (L)
  (Buildings sub-aqueous, such as caissons, cofferdams, and sluice gates are indexed under HYDRAULIC ENGINEERING)
Bridges and aqueducts 132408.
  Buildings other than bridegs tents and sub-aqueous buildings. 129869, 130247, 130715, 130726 133430, 133527, 133583, 134846, 135103.
Casting and moulding *in situ* 133431.
  Columns 132163.
  Composite structural materials, *See* Miscellaneous 131764.
  Floors and ceilings (including roofs and roofing). 130603, 131053, 131835, 132731, 133810, 134914, 134995, 135218.
  Girders and beams. 129869, 132424. 133810, 134037.
  Iron work, constructional, metal plates, rods and bars (excepting those modified for use with special kinds of structures such as Reinforced concerte ; SHIPS, ETC). 133526, 133927, 133965.
  Joints, carpenters' (wood joints with interfitting parts). No case.
  metal sheets and like constructions work, *See* Iron work, etc.
  Miscellaneous 129824, 129867, 129979, 130127, 130247, 130349, 130715, 130726, 131024, 131043, 131062, 131706, 131764, 131835, 132033, 132037, 132163, 132494, 132793, 133293, 133526, 133532, 133633, 133965, 134037, 134269, 134398, 134477, 134557, 134957, 135201, 135257, 135342.
  plastering. No case.
  Posts and poles. 130120, 132033, 132387, 133177, 133398, 133810. reinforcement bars, *see* Reinforced, etc.
  Reinforced concrete and reinforcements (constructions of interest apart from structures made thereof. 130803, 131250, 131385, 131781, 131961, 132424, 132793, 133293, 133398, 133416, 133532, 134026, 134908.
  Scaffolding and staging. 133731.
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BURNERS AND BURNER FITTINGS. XXX (I).
  Atmospheric, incandescent lamp and like (i.e. in which combustible gas is mixed with air or carburant before reaching combustion zone). 132380, 132918, 133718, 134325.
  Blow-pipe and like pressure type. No case.
    diffuse for liquid burners, *see* Spray, etc.
    liquid burners, spray tyle, *see* Spray, etc.
    Miscellaneous. 131189, 133718.
  Open tray, spirit and like burners, without any special vaporising devices. No case.
  Pulverised fuel. 132498.
  Spray. 132367, 134103, 134325.
  Wick, with vaporising means. 132380.
Business machines, such as cash registers, *see* CALCULATING, ETC. (131715).
Butyramidine derivatives, *See* CARBON COMPOUNDS, ETC.

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Cable connecting device, *See* ELECTRIC COUPLING, ETC.
Calcining ores, *See* ORES, ETC.
Calcium carbide, *See* CHEMICAL COMPOUNDS, ETC.
Calcium halophosphate for fluoroescent lamps, *See* CHEMICAL COMPOUNDS, ETC.
Calcium sulphate, *See* CHEMICAL COMPOUNDS, ETC.
Calciumthioctate, *See* CARBON COMPOUNDS, ETC.
CALCULATING, COUNTING AND CASH REGISTERING APPARATUS. XLI (2).
  buisness machines such as cash registers, *See* Cash and sales, etc. 131715.
  Calculating apparatus (other than for cash registers and statistical machines). 131343, 131764, 132433, 132686, 133011, 135049.
  Cash and sales recorders and money delivering apparatus. 131715.
  Composite material particularly for calculating machines, *see* Calculating, etc.

Composite material particularly for statistical machines, *see* Structural machines.

computers, *see* Calculating, etc.

Counting apparatus. No Case.

Statistical machines. 131343, 131764, 132357, 133359, 135042, 135190, 135271.

Totalisators and like automatic wagering apparatus. No case.

Candle holder device *See* BOXES, ETC.

CANDLES AND TAPERS XXX (2).

131297.

Cans, metallic, mechanics for making, *See* METAL WORKING.

CAPACITANCES, RESISTANCES AND INDUCTANCES, ELECTRIC. LVIII(2).

Condensers. 131315, 131900, 132040, 133351, 134163, 134670.

Inductances. 132155, 132393, 133607, 134015.

Resistances. 129883, 131910, 134046.

Caprolactam, purification of, *See* CARBON COMPOUNDS, ETC.

Capsules of containers, *See* STOPPERING, ETC.

Carbene rubber adducts, preparation of, *See* INDIA RUBBER, ETC.

Carbon blacks, *See* NON-METALLIC, ETC.

CARBON COMPOUNDS, ORGANIC. IX(1).

(*Excepting CELLULOSE; FATS ETC. ; Fatty acids for soap making Glucose; Maltose, etc; Gums; Oils (essential mineral and tar); Starch and dextrin; SUGAR; WAXES.*

Dyes and lakes:—

Azo dyes (for azo compounds which are not dyes *see* Substitution derivatives etc). 129816, 129964, 130000, 130034, 130045, 130046, 130047, 130106, 130211, 130282, 130308, 130367, 130374, 130375, 130489, 130537, 130590, 130690, 130872, 130963, 131121, 131151, 131152, 131220, 131457, 131551, 131592, 131734, 131858, 131925, 131939 131967, 131968, 132031, 132188, 132355, 132553, 132592, 132647, 132648, 132833, 132930, 133137, 133138, 133139, 133145, 133165, 133331, 133378, 133659, 133677, 133710, 133738, 133803, 133819, 133840, 133967, 134014, 134064, 134079, 134107, 134152, 134268, 134631, 134782, 135224, 135330, 135339.

Dyes, other than azo dyes. 129898, 129999. 130140, 130466, 130527, 130575, 130914, 130954, 130955, 130963, 131141, 131286, 131287, 131724, 131847, 131858, 131863, 132341, 132390, 132566, 132592, 134014, 134151.

Hydrocarbons and unsubstituted heterocyclic compounds and their homologues. 129969, 130433, 130515, 130598, 131009, 131022, 131098, 131330, 131469, 131782, 132005, 132024, 132232, 132688, 132766, 132799, 132878, 132943, 133107, 133801, 133956, 133969, 134058, 134095, 134099, 134135, 134602, 134681, 134733, 134740, 134860, 134871, 134872, 134877.

Miscellaneous. 129874, 130352, 130453, 130818, 130927, 131105, 131197, 131230, 131717, 131991, 132092, 132292, 132395, 132412, 132491, 132495, 132582, 132701, 132744, 132999, 133161, 133385, 133470, 133597, 133624, 134118, 134248, 134292, 134667, 134791, 134799, 134903, 135129, 135130, 135153, 135251, 135303.

Organo metallic compounds. 129874, 130270, 130319, 130466, 130576, 133661, 134289, 135217.

Resinous condensation and polymerisation products of undetermined structure. 129919, 129951, 129995, 130045, 130088, 130095, 130140, 130201, 130254, 130268, 130417, 130468, 130528, 130536, 130559, 130775, 130811, 130805, 130929, 130969, 131023, 131046, 131084, 131099, 131119, 131215, 131268, 131269, 131386, 131456, 131468, 131521, 131611, 131725, 131842, 131864, 131865, 131927, 131989, 132073, 132177, 132221, 132305, 132308, 132323, 132335, 132342, 132434, 132459, 132798, 132804, 132827, 132828, 132829, 132830, 132865, 132907, 133003, 133047, 133058, 133122, 133214, 133301, 133347, 133353, 133387, 133555, 133678, 133683, 133776, 133802, 133852, 134001, 134071, 134147, 134174, 134490, 134551, 134564, 134571, 134635, 134692, 134702, 134703, 134783, 134800, 134813, 134861, 134988, 135043, 135139, 135283, 135345.

Substitution derivatives of hydrocarbons and heterocyclic compounds other than dyes.

Halogen containing. 129838, 129911, 129918, 129966, 130018, 130050, 130068, 130142, 130158, 130161, 130162, 130196, 130204, 130215, 130256, 130268, 130280, 130296, 130341, 130377, 130394, 130434, 130488, 130507, 130508, 130551, 130570, 130571, 130601, 130707, 130711, 130739, 130767, 130814, 130851, 130877, 130930, 130931, 131014, 131047, 131161, 131169, 131173, 131224, 131283, 131305, 131351, 131367, 131392, 131432, 131450, 131459, 131479, 131485, 131529, 131697, 131724, 131767, 131833, 131834, 131853, 131918, 131990, 132093, 132123, 132132, 132159, 132189, 132239, 132270, 132285, 132334, 132372, 132452, 132467, 132473, 132155, 132628, 132664, 132667, 132668, 132670, 132671, 132672, 132673, 132682, 132726, 132728, 132749, 132776, 132803, 132806, 132813, 132876, 132880, 312900, 132959, 132960, 132961, 133015, 133023, 133074, 133090, 133109, 133118, 133131, 133149, 133170, 133180, 133207, 133213, 133247, 133254, 133280, 133325, 133327, 133332, 133340, 133386, 133456, 133460, 133544, 133599, 133626, 133675, 133723, 133752, 133812, 133844, 133933, 134032, 134164, 134294, 134315, 134357, 134358, 134467, 134500, 134524, 134565, 134572, 134586, 134637, 134638, 134639, 134680, 134829, 134830, 134863, 134894, 134913, 134923, 134924, 134925, 134974, 134999, 135088, 135092, 135114, 135125, 135154, 135156, 135184, 135199, 135253, 135287, 135297.

Nitrogen (but not containing halogen)—

containing aromatic and hydroaromatic ring system, but not containing heterocyclic rings or sulphonamide or sulphonamide group in the molecule.129834,129838, 129892, 129929, 129966, 130041, 130050, 130142, 130173, 130295, 130323, 130405, 130432, 130478, 130507, 130508, 130526, 130548, 130571, 130814, 130845, 130927, 130975, 130987, 131047, 131153, 131169, 131173, 131283, 131352, 131450, 131479, 131485, 131552, 131576, 131577, 131771, 131807, 131833, 131853, 131990, 132060, 132123, 132182, 132342, 132370, 132385, 132580, 132728, 132750, 132752, 132753, 132806, 132811, 132880, 133074,

CARBON COMPOUNDS ETC. contd.

Substitution, etc.—contd.

Nitrogen, etc.—*contd.*

Containing aromatic etc,—Contd.

133103, 133118, 133271, 133357, 133421, 133505, 133790, 133791, 133825, 133836, 134032, 134080, 134162, 134374, 134583, 135093, 135097, 135184, 135199, 135340.

Containing heterocyclic ring system in the molecule, but containing no sulphonamide or sulphonamide group.

129846, 129871, 129918, 129938, 129966, 129989, 130010, 130018, 130020, 130044, 130050, 130068, 130088, 130101, 130158, 130161, 130162, 130173, 130196, 132015, 130235, 130280, 130296, 130394, 130397, 130498, 130499, 130507, 130508, 130524, 130601, 130698, 130707, 130711, 130714, 130738, 130739, 130767, 130797, 130845, 130851 130861, 130892, 130896, 130930, 130943, 131041, 131119, 131153, 131161 131169, 131212, 131224, 131228, 131238, 131270, 131283, 131351, 131356, 131367, 131392, 131396, 131418, 131432, 131459, 131467, 131479, 131485, 131493, 131529, 131577, 131654, 131655, 131663, 131664, 131767, 131771, 131807, 131812, 131834, 131853, 131933, 131994, 132023, 132057, 132115, 132132, 132169, 132180, 132181, 132189, 132195, 132270, 132285, 132298, 132370, 132372, 132432, 132447, 132452, 132467, 132473, 132555, 132664, 132666, 132667, 132668, 132670, 132671, 132673, 132682, 132685, 132726, 132750, 132752, 132753, 132765, 132805, 132880, 132900, 132953, 132959, 132960, 132961, 133015, 133020, 133077, 133101, 133106, 133109, 133131, 133149, 133166, 133207, 133247, 133254, 133274, 133276, 133303, 133317, 133318, 133325, 133327, 133332, 133340, 133410, 133420, 133456, 133460, 133543, 133621, 133626, 133723, 133739, 133741, 133742, 133752, 133806, 133836, 133933, 133946, 133958, 134034, 134075, 134080, 134141, 134148, 134162, 134164, 134207, 134215, 134235, 134266, 134411, 134470, 13450, 134502, 134565, 134572, 134582, 134586, 134620, 134637, 134638, 134639, 134680, 134913, 134923, 134924, 134925, 134974, 135008, 135063, 135088, 135092, 135125, 135156, 135199, 135221, 135253, 135285, 135286, 135287, 135290, 135340.

Containing no ring system in the molecule. 129892, 129914, 129916, 130108, 130173, 130323, 130341, 130698, 130792, 130800, 130801, 130845, 130929, 131008, 131051, 131080, 131283, 131394 131471, 131576, 131625, 131653, 131821, 131833, 132384, 131877, 131917, 132060, 132100, 132293, 132368, 132385, 132523, 132572, 132728, 132794, 133053, 133118, 133327, 133328, 133836, 133894, 134041, 134070, 134247, 134299, 134323, 134391, 134430, 134904, 135199, 135251, 135315.

Sulphonamide or sulphonamide derivatives. 130162, 130173, 130212, 130833, 132288.

Oxygen (but not centaining halogen and nitrogen)—

Aldhdyde, ether, ester and other miscellaneous groups but not containing carboxylic, ketone and hydroxy groups. 129961 130043, 130072, 130142, 130176, 130259, 130268, 130320, 130343, 130491, 130548, 130569, 130570, 131077, 131078, 131079, 131218, 131369, 131545, 131765, 132025, 132043, 132239, 132762, 132803, 132884, 132976, 133022, 133056, 133181, 133242, 133274, 133570, 133812, 133836, 133911 133999, 134023, 134321, 134391, 134531, 134723, 134910

Carboxylic groups.

129874, 130015, 130142, 130218, 130371, 130541, 130716, 130783, 130836, 130858, 131175, 131200, 131697, 132059, 132449, 132565, 132716, 132759, 133170, 133242, 133305, 133356, 133812, 133836, 133865, 133997.

Hydroxy groups but not containing carboxylic and ketonic groups.

130043, 130268, 130491, 130799, 130992, 131039, 131299, 131452, 132025, 132043, 132075, 312086, 132469, 132850, 133022, 133079, 133170, 133181, 133193, 133241, 133625, 134253, 134735, 134910, 135291, 135346.

Ketonic, annhydride and lactone groups but not containing carboxylic groups.

129838, 129962, 129967, 130401, 130782, 130799, 130832, 130860, 130870, 130998, 131076, 131386, 131413, 131599, 131977, 132060, 132249, 132565, 132783, 132850, 133079, 133170, 133175, 133638, 133670, 133766, 133767, 133959, 134644, 135056, 135077, 135162, 135331.

Sulphur, phosphorous, boron and other elements containing, but not halogen, nitrogen and oxygen. No case.

Vitamins.

130927, 131197, 131231, 131717.

Carbon disulphide manufacture of, See CHEMICAL COMPOUNDS, ETC.

Carbon monoxide, *see* CHEMICAL COMPOUNDS, ETC.

Carboxamide derivatives preparation of, *See* CARBON COMPOUNDS, ETC.

Carboxylic acids, *See* CARBON COMPOUNDS, ETC.

Casting machines for metals, *See* CASTING METALS.

CASTING METALS, XXXIII(3).

billet casting, marking devices for, *see* Miscellaneous.

casting extracting apparatus, *see* Miscellaneous.

Casting machines and processes dependant on such machines.

129812, 129868, 129880, 130094, 130307 130581, 130675, 130820, 130901, 131150, 131262, 131421, 131635, 131780, 132061, 132253, 132294, 132332, 132415, 132435, 132692, 132962, 133071, 133355, 133461, 133695, 133940, 134624, 134656, 134722, 135186.

Flasks, and boxes, moulders. No case.

lining compositions, for moulds, *see* Materials, etc.

Materials and linings for moulds and cores. 130322, 133048, 133049. 133989,

Miscellaneous, 130094, 130322, 130820, 131564, 131780, 132061, 132351, 133192, 133799, 134024, 134748, 135177.

Moulding machines, 130286, 134862, 135319.

Moulds and cores, 130094, 130286, 130513, 131603, 131635, 131922, 132692, 133355, 133379, 134111, 134359, 135238.

osidation of molten metal preventing during casting, *see* Proccss of casting in general.

Patterns, 133482, 133483.

Processes of castings in general (not dependant on any particulars machine).

130348, 131499, 131564, 131764, 133128, 134024, 134409.

Casting of non-metallic bodies, *see* MOULDING, ETC.

Catalyst for dehydrogenation of hydrocarbons, preparation of *see* CHEMICAL PROCESSES, ETC.

Catalysts, *see* CHEMICAL PROCESSES, ETC.

CARBON COMPUNDS ETC.—*Contd.*

Catalysts, preparation of, *see* CHEMICAL PROCESSES, ETC.

Catalysts, regeneration of, *see* CHEMICAL PROCESSES, ETC.

Catalytic hydrogenation hydrocorbeons of aromatic hydrocarbons to naphthenic hydrocarbons, *see* CARBON COMPOUNDS, ETC.

Catechins, *see* CARBON COMPOUNDS, ETC.

Cathodes for electrolytic process, *see* ELECTROLYSTS, ETC.

CELULOSE (NON-FIBROUS) AND DERIVATIVES THEREOF (INCLUDING) ARTIFICIAL FILAMENT SHEETS MADE FROM CELLULOSE FROTEIN AND LIKE SOLUTIONS).

(*Steps in processes for production of cellulose and derivatives involving improvements in connection with bleaching, drying, filtering and moulding are indexed under headings denoting such operations.*)

- Apparatus processes and compositions for making filaments and films, artificial silk and like textile products. 129893, 129997, 130045, 130376, 130488, 130645, 130685, 130686, 130829, 130921, 130993, 131095, 131225, 131747, 131905, 131914, 132143, 132184, 132194, 132457, 132658, 132757, 132826, 132904, 133102, 133164,133782, 134001, 134278, 134417, 134590, 139688, 134854, 134043, 135219.
- Conversion products such as hydro-cellulose and oxy-cellulose, obtaining (including preparatory treatment of cellulose for the production of cellulose derivatives and solutions of cellulose). 134688.
- Derivatives, other than esters and ethers (including solutions and dispersions thereof and articles made therefrom). 134688.
- Esters and ethers of cellulose (including solutions thereof and articles made therefrom). 131528, 124688.

Cellulosic fabrics, treating with resins, *see* DYEING, ETC.

Cement clinkers and like granular materials, cooling, *see* COOLING, ETC.

CEMENT CONCRETE, PLASTER, ARTIFICIAL STONE, ASPHALT AND REFRACTORY MANUFACTURE XXV (2).

- aggregates for concrete, *see* Concretes, etc.
- Asphalts, (naturally occurring) preparation and treatment of. No case.
- bituminous, resinous, fatty, oily and like plastic compositions, *See* PLASTIC COMPOSITIONS
- Cements portland 130379, 130722, 132192, 132690, 133147, 133641, 133828.
- Concretes and mortars, lime, magnesia and magnesium carbonate and cement 129886, 130390, 132163, 132192, 132360, 132983, 133147, 133179, 134035, 134552, 134908.
- Plaster, lime and chalk plastic compositions 132237.
- Refractory substances for furnace linings and crucibles and for high temperature purposes 130114, 130373, 130543, 131035 131439, 131440, 131470, 132064, 132263, 132278 133476, 133828, 134035, 134326, 134712, 134713.
- Slags, treatment of. 130532.
- Stone, artificial and stone preserving and colouring. (This heading comprises only compositions fused together at high temperatures. For compositions other than those fused at high temperatures, *See* PLASTIC COMPOSITIONS) 131489.

Cement, furnaces or kilns for manufacture of, *see* FURNACES ETC.

Cements, manufacture of, *See* CEMENT ETC.

CENTRIFUGAL AND SCREW FANS AND PUMPS XLI V(1)

- Centrifugal fans and pumps—
  - Casings and structural details, other than blades and driving gear 130262, 130681, 131969, 132592, 134543, 134704.
  - Driving gear and regulating means 132592, 132928, 134543, 134704.
  - Impeller blades, construction and mounting of. 131969. 134543, 134704.
- Screw fans and pumps—
  - Casings and structural details other than blades and driving gear 134350, 134543, 135307, 135308, 135309, 135310.
  - Driving gear and regulating means. 132797, 134543.
  - Impeller blades, construction and mounting of. 134543 135306.

Centrifugal dryers, *see* DRYING ETC.

CENTRIFUGAL MACHINES AND APPARATUS (OTHER THAN FANS AND PUMPS) XXXIV(I).

(*This heading does not include* CASTING METAL ; GLASS MANUFACTURE ; MOULDING; ETC. : SPRAY PRODUCERS.)

- butyrometers, *See* Density separators.
- cream separators, *see* Density separators.
- decanting machines in which rotor containing the, product to be separated, *see* Density, etc.
- Density separators. 130917, 130924, 131015, 134810.
- Machines and separators, other than density and strainer separators, and miscellaneous detains. 130844.
- Strainer separators. 131556.
- vortex separators, *see* Density, etc.

Cephalexin monohydrate *see* CARBON COMPOUNDS, ETC.

Ceramic ware, *see* BRICKS, BLOCKS, ETC.

CHAINS AND SHACKLES LXIV'(2).

133148.

Chair, stool and like, support for, *see* FURNITURE.

Charge mixing devices between carburretor and engine, *see* INTERNAL, ETC.

CHEMICAL COMPOUNDS, INORGANIC. III.

(*Seps in the production of inorganic compounds involving improve, ments in connection with condensing, cooling, crystallisings distlilling, drying, filtering, grinding and crushing, mising, and packing are indexed in heading denoting such operations.*)

- Acids not containing oxygen. 130631, 134117, 134719 135204.
- Alkali manufacture. 131326, 131909, 132741, 133828, 134522, 134772.
- Ammonia and ammonium compounds and salts. 130157, 130355, 130626, 130720, 131326, 131458, 131536, 132084.
- boron nitrides, *see* Nitrides, etc.
- Carbonates (excepting alkali metal). 130948.
- Compounds, chemical miscellaneous. 130925, 131032, 131808, 131809, 132466, 132741, 133172.
- Cyanogen compounds and metallic derivatives. No case.
- electrolytic processes of preparing inorganic compounds, *see* ELECTROLYSIS, ETC.
- Halides, metallic. 130048, 130309, 131235, 131378, 131697, 131913, 132484, 132847, 133123 133920, 134377, 134393, 134660, 135134.

CHEMICAL COMPOUNDS, ETC.—*contd.*

Hypochlorites, metallic. 133134.

Nitrates, metallic. 131336.

Nitrides, metallic. 131925, 134125.

Oxides, and oxy-acids, non-metallic 129813, 130125, 130356, 130682, 130684, 131055, 131400, 131417, 131536, 131770 131829, 132453, 133255, 134132, 134187, 134602, 134794, 134909, 135013, 135255.

Oxides, hydrates, and oxy-acids. 130083, 130117, 130734, 130736, 130737, 130793, 131284, 131308, 131311, 131606, 131645, 131770, 132589, 133684, 133828, 134326, 134754, 135134, 135344.

Phosphates, metallic. 129870, 131306, 131373, 133423, 133888, 134517.

Salts, metallic, miscellaneous. 130125, 131336, 131567, 132847, 133273, 134255.

Silicates, metallic. 130124, 130793, 132074, 133302, 134710, 134711.

Sulphates, metallic. 129991, 130181, 130637, 131055, 131568, 132741, 133444, 134117, 134659, 134816, 135013.

Sulphides, metallic. 129813, 130121.

Sulphites, metallic. No case.

CHEMICAL PROCESSES AND APPARATUS.

(This heading includes only processes and aratus for which no specific provision exists under the other key headings.

Apparatus and procsses depending upon appartus for carrying catalytic reactions

For reaction between gases and vapours. 130201, 130485, 131894, 132045, 133054, 134602.

Other than for reaction between gases and vapours. 129951, 130201, 132045, 132135, 132366, 133776, 133861, 134247, 134536, 134681.

Catalytic agents, preparation and treatment of. 129962, 130088, 130209, 130491, 130576, 130598, 130642, 130719, 130733, 130734, 130736, 130737, 130811, 131076, 131119, 131159, 131185, 131215, 131299, 131386, 131429, 132048, 132571, 132782, 132783, 133047, 133058, 133297, 133353, 133549, 133555, 133660, 133661, 133939, 134009, 134058, 134189, 134247, 134255, 134378, 134800, 134813, 134872, 135043, 135124, 135345.

Catalytic processes not depending upon any apparatus, for producing definite chemical compounds, *see* Headings for the compounds.

Colloidal solutions, dispersions and emulsions other than bituminous emulsions.

129968, 130636, 130742, 130807, 131330, 132128, 132308, 133394, 133434, 134440, 134441, 134716, 135017.

Gas and vapours, treating with electric discharges. 132215.

Hydrogen —Oxygen recombining in the presence of a catalyst, device for, *see* Apparatus and processes, *etc.*, (For reaction between gases, etc.). 130485.

Liquid and gases separating. 132727, 132766, 133216, 134099, 134847.

Miscellaneous processes and apparatus. 129991, 130020, 130095, 130157, 130233, 130235, 130396, 130552, 130553, 130630, 130631, 130636, 130719, 130802, 130950, 131378, 131536, 131725, 131726, 135810, 131838, 131954, 132118, 132168, 132534, 132697, 132741, 132759, 132810, 132826, 132910, 132939, 132943, 133162, 133167, 133233, 133566, 133645, 133673, 133884, 133945, 133956, 133984, 134096 134195, 134380, 134440, 134441, 134462, 134464, 134534, 134598, 134663, 134689, 134799, 135023, 135187, 135191, 135195, 135196, 135315, 135346.

Radiation processes, not depending upon any apparatus, for producing definite chemical compounds *see* Headings for the compounds.

Rediations, treating substances with for effecting chemical reactions and sterilisation, apparatus and processes depending upon such apparatus. No case.

Separating mixtures of gases (excepting air and gases liquefying).

130415, 130416, 131033, 131205, 131777, 132232, 133408, 134187, 134733, 134847.

Testing and gas analysis. 131332, 131954, 133329, 133554, 133986, 134906.

Chilling waxy oil solution, *See*. OILS, ETC.

CHIMNEYS AND FLUES XXVI (2) 134166

7-Chlora-1-methyl-5-phenyl-2, 3-dihydro-1H-1, 4-benzodiazepine-2-one,, *See* CARBON COMPOUNDS, ETC.

Chlorine obtained by electrolysis, *See* ELECTROLYSIS, ETC.

Choke, electric for controlling current in discharge lamp, *See* CAPACITANCES, ETC.

Chopping vegetables, and like, *See* COOKING, ETC.

Chromic anhydride, *See* CHEMICAL COMPOUNDS, ETC.

1:2- Chromium complex azodyestuffs, *See* CARBON COMPOUNDS, ETC.

Chucks, *See* METAL, ETC.

Cigarette packing machines, *See* PACKING, ETC.

CIGARS, CIGARETTES AND SMOKER'S APPLIANCES AND TOBACCO MANUFACTURE XVI.

Cigarette packing machine, *See* PACKING, ETC.

Cigarettes and cigarette making machines and appliances—

Apparatus and details, unclassified.

130033, 131449 132191, 133595, 134277.

Cigarettes.

129891, 131449, 132191, 132295, 132808, 133014, 133412, 133882, 134277.

Continuous-rod type of machines. No case.

Cutting and trimming mechanism. No case.

Feeding tobacco (including opening and picking) and delivering cigarettes in orderly arrangement. No case.

Cigars and charoots and cigar making machines. 132295.

Smoker's accessories (ash trays, pipes, cigarette holders, pouches, smoking devices).

130828, 132808, 132972, 133191, 133402, 133595, 133797, 133882, 134301, 134953.

Tobacco, manufacture of and tobacco substitutes and smoking, mixtures.

130484, 130625, 130646, 130658, 130659, 130660, 130661, 130662, 130663, 132295, 132428, 132974, 134104.

CINEMATOGRAPHY. XXXVIIII (I).

(*This heading does not include cinematographic picture films and lantern slides for which see* PHOTOGRAPHY).

Colour cinematography.
130578.

Film winding and storing means.
134406, 134416.

Frames and casings (including arrangement of parts therein).
No. case.

Gates and exposure-position film carriers and film centring.
No Case.

Intermittent-feed mechanisms. No case.

Miscellaneous. No case

Shutters and automatic control devices for out-off shutters, switches and signals (including films modified for use there with). No case.

Stereoscopic and relief effects-producing. No case.

Circuit breakers, electric, *See* ELECTRIC SWITCHES, ETC.

Circuit for controlling electric motor, *See* MOTOR CONTROL ETC. (130689').

Citric acid, *See* CARBON COMPOUNDS, ETC.

Cleaning spark plugs, *See* INTERNAL COMBUSTION, ETC.

CLOCKS AND WATCHES. XLI (4).
129872, 132785, 133251, 135273.

CLOSETS, BATHS AND LIKE SANITARY APPLIANCES. II (1).

Baths. No case.

Closets, sanitary——

Constructional features, other than seats, etc.
132479, 133112.

Seats, seat guards, seat lids and seat backs.
133112.

Commodes, bed pans and chamber pots. No case.

Flushing closets *See* Closets etc. (Constructional etc).

Lavatory basins and sinks. No case.

Miscellaneous appliances. 132838.

Urinals. No case.

Water waste preventing cisterns, flushing and like—

Combined valve and siphon discharge and miscellaneous details. No case.

Siphon discharge only. 132655, 133112.

Valve discharge only. 131096, 132176, 133112.

Coal gasification plant, *See* COKING, ETC.

Coating metals by electro-deposition, *See* ELECTROLYSIS, ETC.

Polyester sheet or film material, *See* PROOFING, ETC. (131379).

Coating of reactive foam of coke, *See* FUEL MANUFACTURE, ETC.

Coating the surface of polymerization vessel, *See* PAINTS, ETC.

Cobalt-rare earth intermetallic products, *See* ALLOYS

COINFREED APPARATUS. XLI (3).

(*Coin and check freed telephone systems, other than cons-trucion of coin and check operated freeing mechanism are indexed under* TELEPHONES).

Coin testing and fraudulent actuation, preventing apparatus for. No case.

Delivery of articles (including delivery of coins for change giving), apparatus for. 134442.

Fluids and electricity delivery of, by clock work, meter or otherwise. No case.

Franking and postmarking apparatus for. No case.

Miscellaneous. No case.

Telegraph and telephone apparatus. No case.

Coke-ovens, *See* COKING, ETC.

COKING AND GAS PRODUCERS. XXXII (1).

Coking processes, not depending upon any particular type of apparatus.
130076, 130682, 135275 .

Gas Producers
132161, 132995, 134819.

Miscellaneous. 130076, 130785.

Oscillatory, reciprocatory and rotary retorts. No case.

Ovens, coke (flue-heated),.
130785, 131002, 131061, 131158, 131271, 131796, 133168, 133727, 135275.

Retorts, other than oscillatory, reciprocatory and rotating. No case.

Concretes, *See* CEMENT.

Conductor rolls in electroplating apparatus, *See* ELECTROLYSIS, ETC.

Compressed air electric circuit interruptor *See* ELECTRIC SWITCHES, ETC.

Computers, *See* CALCULATING, ETC.

Concrete and like mixing machine, *See* MIXING, ETC.

Composition for semi-conductive layer of cables, *See* PLASTIC, ETC.

Compositions of benzoin ethers, *See* PLASTIC COMPOSITIONS.

Colouring gasoline like petroleum products, *See* FUELS, ETC

Complex disazo dyestuffs. *See* CARBON COMPOUNDS, ETC.

Cold water soluble tea, preparation of. *See* TEA, ETC.

Collinear aerial, *See* WIRELESS, ETC.

Colour television decoding system for receivers, *See* TELEGRAPHS, ETC.

Coloured glass *See* GLASS, ETC.

CONDUCTORS AND INSULATORS, ELECTRIC LVIII (3).

Cables and conductors—

Armouring (including protecting and preserving core insulation with non-metallic covering).
130605, 130824, 131583, 133234, 133639, 133798, 133831, 135096.

Arrangement and disposition of constituent parts.
13267, 130605, 131583, 133381, 133831, 134525.

Conductive materials and cores for.
130627, 131504, 131505, 131506.

Miscellaneous.

129882, 130577, 130587, 132241, 133127, 133381, 134525, 134591.

With auxiliary conductors.
130824, 133381.

Conduits and casings, specially designed for cables and conductors. No case.

Insulating materials.
130627, 130993, 132371, 134056, 134570, 134571, 135280.

Laying, fixing, suspending and supporting cables and conductors—

Insulators (including means for securing insulators together or to support).
130440, 130993, 133136, 133458, 135280, 135281.

Laying, erecting and repairing.
130634, 132513, 133136.

Miscellaneous.
132379, 133136, 133740.

Suspending and supporting.
130440, 131179, 132129, 133458.

Printed circuits current control apparatus for, *See* Laying, etc. (Laying erecting, etc).

Conduits for utilities in hospital, *See* MEDICAL, ETC.

Conjugated dioletins, separation of, *See* CARBON COMPOUNDS, ETC.

Contact adhesive, *See* ADHESIVE, ETC.

Contact member for circuit breakers, *See* ELECTRIC SWITCHES, ETC.

Contact members for electric switches, *See* ELECTRIC SWITCHES, ETC.

Contacts for electric connectors *See* ELECTRIC COUPLINGS, ETC.

Containers coupling apparatus for *See* STOPPERING, ETC.

Containers, stoppering and sealing, *See* STOPPERING, ETC.

Control panel furniture. *See* FURNITURE, ETC.

Controlling coating on metal strips. *See* TINNING, ETC.

Converters, metallurgical, *See* IRON & STEEL, ETC.

Conversion of waste materials into moulding granules, *See* GRANULATING, ETC.

Conveying load by endless belt, apparatus for, *See* LIFTING, ETC.

Conveying materials in bulks. *See* LIFTING, ETC.

Conveyor belts, *See* LIFTING, ETC.

Conveyor devices for loads, *See* LIFTING, ETC.

Cookers, pressure, *See* COOKING, ETC.

COOKING, BAKING AND KITCHEN APPLIANCES. XV(1)

(This heading comprises only the apparatus and utensils indicated by the sub-headings. Sauce pans, pails and like hollow-ware are index under HOLLOW WARE).

Bread, biscuit, cakes and pastry, making. 131466, 135084

Cooking apparatus, field, camp and like. 133087.

Fruits, nuts, vegetable, meat, fish and game dressing. 132814, 133961.

Graters, crumblers, scrapers (including apparatus for mincing and cutting slices). 130131, 133087.

Kneading flour, *See* Miscellaneous.

Miscellaneous. 131000, 131203, 132471, 133087, 134224, 135047, 135094.

Oven accessories and other baking apparatus. 131203, 131437.

Roasting jacks, and spits grilling and toasting apparatus. No case.

Steam, hot water and like cooking apparatus. 130609, 130610, 130611, 131358, 132354, 133198, 135047.

Tiffin and the like carriers. 130712.

COOLING AND ICE-MAKING. VII (1).

(This heading includes only general methods and apparatus for the production of cold and for cooling gases and liquids. Except in the case of items mentioned under sub-heading "Miscellaneous", cooling processes and apparatus applicable for particular purposes are indexed under the headings for such purposes. Thus methods of cooling Dynamoelectric machinery will be indexed under DYNAMO ELECTRIC, ETC.).

Air cooling installation for, *See* Cooling gases, etc.

Cold and heat retaining vessels (containers of small capacity without cooling or heating means suitable for transporting or storing). 129902, 129903, 129904, 129924, 129980, 129982, 130327, 130328, 130332, 131860, 132017, 133619, 133620, 133953, 134641.

Cooling gases and liquids (excepting heat inter-changing apparatus and ice-making). 130058, 130250, 130798, 131127, 132008, 132530, 132531, 135173.

cooling granular and like materials, *See* Miscellaneous.

ice-cream machines, *See* Ice-making, etc.

Ice-making and congelation of liquids (excepting processes and apparatus for the production of cold in general to be used subsequently for ice-making). 132108, 134353, 134442.

Miscellaneous, 130486, 132684, 134352, 134461, 134641, 135172, 135173.

packing for cooling towers, *See* Cooling gases, etc.

Refrigerating systems for the production of cold—
Absorption systems. 133662, 135336.
Compression systems. 130983, 135069.

Systems other than absorption and compression. 130983, 134422.

refrigeration apparatus other than system for production of cold, *See* Refrigerators, etc.

Refrigerators, cooling chambers and cold storage rooms, other than systems for production of cold. 129830, 130332, 135336.

water cooling installation for, *See* Cooling gases etc.

Cooling articles by air method and apparatus for, *See* COOLING AND, ETC.

Cooling beverages, *See* COOLING, ETC.

Cop replacing attachment for looms, *See* LOOMS.

COOLING ETC.—*contd.*

Copolymerization, *See* CARBON COMPOUNDS, ETC.

Copolymers, preparation of, *See* CARBON COMPOUNDS, ETC.

Copper or nickel phthalocyamine, *See* CARBON COMPOUNDS, ETC.

Core binder, *See* CASTING METALS.

Corrosion inhibiting composition, *See* INCRUSTATION, ETC.

Corrosion inhibitors, *See* INCRUSTATION, ETC.

Corrugated plastic pipes, moulding of, *See* MOULDING, ETC.

Cosmetic pencils, *See* TOILET, ETC.

Coupler for railway cars, *See* RAILWAY, ETC.

Couplers for railway and tramway vehicles, *See* RAILWAY AND TRAMWAY VEHICLES, ETC.

Couplings, electric, *See* ELECTRIC COUPLINGS, ETC.

Crankshafts, *See* MECHANISM, ETC.

Cryometers, *See* PHILOSOPHICAL, ETC.

Crystallising sugared juices by evaporation, *See* DISTILLING, ETC.

Curcumin derivatives, *See* CARBON COMPOUNDS, ETC.

CUTLERY. LXVI (2).

Forks. No case.

Knives. 130830, 133955.

Miscellaneous. 130546.

Razors and shavers. 129820, 129821, 130666, 130667, 131012, 131123, 131274, 132141, 132501, 133059, 133400, 133576, 133859, 134436, 134437, 134592, 134950, 134951, 135198.

scabbard or holders for knives, *See* Knives.

Scissors and hand shears. No case.

Cutting inserts for metals, *See* METAL WORKING.

Cutting metals, *See* METAL WORKING.

CUTTING, PUNCHING AND PERFORATING PAPER, FABRICS AND LIKE. XXIV (1).

Cutting and serving machines. 130407, 132036, 133333, 134834.

Punching and perforating machines. No case.

Cutting tools for metals, *See* METAL WORKING.

Cyanacrylic acid derivatives, preparation of, *See* CARBON COMPOUNDS, ETC.

CYCLES AND LIKE VEHICLES. LII (5).

Accessories for (awnings, windshields, stands and luggage carriers and like attachments).
No case.

Brake operating mechanism. 132650.

Driving mechanism (including human power driving mechanism for apparatus other than vehicles). 130520, 132345, 133978, 134835, 135149, 135337.

mud, dress and like guards for wheels *See* Accessories, etc.

holders for wheels when not in use *See* Accessories, etc.

Steering mechanism. No case.

Structural design of (other than brakes, steering a driving mechanism). 133339, 135149.

Cyclization of rubber, *See* INDIA RUBBER, ETC.

Cyclohexanol, *See* CARBON COMPOUNDS, ETC.

Cyclohexanone, *See* CARBON COMPOUNDS, ETC.

Cyclohexanone oxime *See* CARBON COMPOUNDS, ETC.

Cyclopropane derivatives *See* CARBON COMPOUNDS, ETC.

Cylinder head for internal combustion engine, *See* INTERNAL ETC.

Data processing machine components, composite materials particularly for, *See* CALCULATING ETC.

Decanting machines with rotor containing the product to be separated *See* CENTRIFUGAL, ETC.

DECOCTIONS, EXTRACTS, AND INFUSIONS, MAKING XIV (3).

131596, 132309, 133298, 134698.

Decorative flooring surfaces, *See* BUILDINGS, ETC.

Dehydrogenation of substituted hydrocarbons using the catalyst, *See* CARBON COMPOUNDS, ETC.

Delaying electric signal samples, device for, *See* TELEGRAPHS ETC.

Demethylation of 3-aminomacrolides, *See* CARBON COMPOUNDS, ETC.

Dentifrice, *See* SOAPS, ETC.

Dentifrice, *See* TOILET, ETC.

Dentifric composition, *See* TOILET, ETC.

Dentifrice with iridescent effect, *See* TOILET, ETC.

Depositing groups of articles in open packing cases, *See* LIFTING, ETC.

Depositing metals on metallic surfaces otherwise than by electolysis, *See* TINNING, ETC.

Depositing of metals by cathode dispersion in vacuum, *See* VACUUM, ETC.

Depositing of metals by cathode sputtering, *See* VACUUM, ETC.

Deposition of metals by thermal evaporation in vacuum, *See* TINNING, ETC.

Destroying tank, device for, *See* AMMUNITION AND, ETC.

Detecting alignment of shafts of machinery units, apparatus for *See* PHILOSOPHICAL, ETC.

Detergent composition, *See* SOAPS, ETC.

Detergent compositions containing mixtures of salts of SOAP long clain monocarboxylic acids, *See* SOAPS, ETC.

Detergents, *See* SOAPS, ETC.

Dewaxing process, *See* CHEMICAL PROCESSES, ETC.

Dewooling animal skins, *See* LEATHER, ETC.

Diamonds, cutting and working, *See* STONE CUTTING, ETC.

Diarylethylene derivatives, *See* CARBON COMPOUNDS, ETC.

Dichloropyridine derivatives, preparation of, *See* CARBON COMPOUNDS, ETC.

Dicing semiconductor Wafer, *See* WIRELESS, ETC.

Diffussion plants for extracting sugar,

2-3-dihydro-2-(5-nitro-2-thienyl) quinozoline-4 (1H), *See* CARBON COMPOUNDS, ETC.

Dihydropyrimide pyriadazine derivatives, *See* CARBON COMPOUNDS ETC.

Dimethoate granules, *See* DISINFECTING, ETC.

Dimethyl terephthalate, *See* CARBON COMPOUNDS, ETC.

Dinitroamiline compounds, preparation of, *See* CARBON COMPOUNDS, ETC.

2, 6-dinitroanilines, *See* CARBON COMPOUNDS, ETC.

Disazo pigments, preparation of, *See* CARBON COMPOUNDS ETC.

DISINFECTING AND DEODORIZING, INCLUDING MEDICAL AND LIKE PREPARATION. XIX (1).

(*This heading does not include washing bottles, sewage treatment and water purifying which are indexed in separate headings*).

Deodorants, fumigants, disinfectants and antiseptics. 130158, 130383, 130998, 131368, 132998, 133134.

Disinfecting—

Air and gases, disinfecting. 130383.

Chambers and ovens for disinfecting by means of gases and vapours. No case.

extracts, decoctions and infusion making *See* DECOCTIONS, ETC.

Miscellaneous. No case.

Fumigating and vaporising for sanitary and like purposes. 133421.

Insecticides and vermin destroying compositions—

Containing plant extracts. 131919.

Other than containing plant extracts. 129857, 129892, 130050, 130124, 130158, 130215, 130269, 130377, 130469, 130526, 130569, 130570, 130571, 130870, 130967, 130998, 131248, 131280, 131542, 131767, 131867, 131919, 132521, 132749, 133078, 133134, 133327, 133357, 133602, 134500, 134802, 134841, 135076, 135166.

Medicines and other pharmaceutical preparation (excepting drugs of distinct chemical composition)—

Anti-toxins, toxins, vaccines and immunising and like serums. 130453, 131052, 131512, 130453, 132083, 133167, 133886, 134229.

External remedies (other than antitoxins, toxins, vaccines and serums). 129938, 130204, 131178, 131767, 132372 132495, 133812, 133933, 134217, 134572, 135277.

Hormones and animal gland extracts. 132169, 134_ .

Internal remedies (other than hormones, and animal gland extracts) 130944, 130068, 130163, 130341, 130394, 130714, 131014, 131653, 131654, 131655, 131767, 132195, 132370, 132412, 132372, 132467, 132491, 132495, 132660, 132742, 132765, 132768, 132742, 132859, 132907, 132959, 132960, 132951, 133108, 133149, 132959, 132960, 132961, 133597, 133790, 133812, 133824, 133894, 133933 134313, 133499, 134572, 134655, 134913, 135093, 135125, 135297.

Miscellaneous. 130352, 130465, 130469, 132464, 132465, 132907, 133394, 133624, 134228, 134650.

vitamin *See* CARBON COMPOUNDS, ETC.

Dispenser, air pressure operated *See* SPRAY ETC.

Dispensing liquids inmeasured quantities, *See* MEASURES OF CAPACITY, ETC.

Dispensing, powdered material, *See* STOPPERING, ETC.

Distance measuring apparatus, *See* GAUGES, ETC.

Distillation and evaporation of liquids, *See* DISTILLING, ETC.

Distillation of conjugated diolefins, *See* CARBON COMPOUNDS, ETC.

DISTILLING AND EVAPORATING LIQUIDS V.

(*This heading does not include liquefying and evaporating air and gases see* AIR AND GASES; DRYING SYSTEMS; GAS MANUFACTURE; *carburetting see* INTERNAL COMBUSTION ENGINES; *distilling metals see* METALS, EXTRACTING; *and refrigerating systems see* COOLING).

Condensers, condenser systems, column stills and rectifiers, construction of (plants and processes, other than for cracking and distilling hydrocarbons). 131382, 133862, 134357, 134715.

Cracking hydrocarbons. 129831, 130110, 130515, 131782, 132046, 132799, 132854, 132913, 132931, 133079, 134699, 135043.

Crystallising other than by evaporating. 132074, 132099.

crystallising sugared juices by evaporation, *See* Evaporators, etc.

Evaporators and evaporating systems (plants and processes, other than for cracking and distilling hydrocarbons). 130886, 131723, 133491, 133515.

Hydrocarbons, distilling without cracking (including pitch, resin oils and turpentine). 131382, 132878, 133956, 134135, 134740, 134871, 135165.

Hydrogenation, destructive of coal, oils and like carbonaceous materials, obtaining liquids by. 130891, 131022, 131009, 131782, 132024, 132688, 133216, 133411, 134378, 134681, 134860, 134877.

Plants and processes not otherwise provided for. 130506, 130553, 132086, 132727, 132810, 133399, 133515, 134072, 134259, 134833.

sludges, separation oil from *See* Plants etc.

vacuum distillation of liquids. *See* Plants, etc.

Distilling apparatus, *See* DISTILLING, ETC.

Diversion box for diverting water, *See* HYDRAULIC ENG., ETC.

DOOR AND GATE OPERATING APPLIANCES, HINGES AND PIVOTS. LXIV (3).

(*This heading includes means for opening, closing and controlling the operation of doors, gates, barriers of buildings, ships vehicles and road and railway tracks*).

Door, window and like hinged articles, holders, stops and stays for (means for holding in open position independently of opening and closing means). No case.

DOOR AND GATE OPERATING APPLIANCES HINGES AND PIVOTS—contd.

Hinges and pivots. 130926, 131067, 132817.

Holders for sliding doors, windows and like (means apart from operating means). No case.

Means for opening, closing and controlling operation of door, gate, and barriers of buildings and vehicles. 130056, 130573, 131069, 131472, 131473, 131904, 133163, 133745, 134466, 134884.

window opening and closing apparatus *See* Means, etc.

DOORS AND WINDOWS AND THEIR ACCESSORIES. XXVI (3).

(*This heading includes doors and windows for building, vehicles and like structures only. For coke oven doors See* COKING, ETC; *for furnace doors see* FURNACES).

Accessories—

Draught and dust excluders. No case.

Window and like guards. No case.

window opening and closing apparatus *See* DOOR AND GATE, ETC.

Door and door frames. 131068, 133463, 133744, 133745.

glazing bars, *See* Windows, etc.

Window shutters. 130787, 131395, 132438, 132439, 133463, 133744, 133745.

Windows, fan lights and roof lights (including miscellaneous, transparent sheet materials but not window shutters).
130249, 130677, 131068, 131069, 131070, 131072, 131166, 132178, 132438, 132439.

DRAINS AND SEWERS. II (2).

Conduits, culverts and sewers. No case.

Drainage and sewerage. No case.

DRESS AND DRESS FASTENING LXVI (3).

Drawing boards, *See* WRITING, ETC.

Drawing filaments of linear thermoplastic polymer, *See* CELLULOSE, ETC.

Belts, equipments and other straps for personal wear, braces and suspenders. No case.

buttons and button fasteners *See* Fastenings, dress, etc.

gloves and like hand coverings *See* Miscellaneous.

Fastenings, dress (other than belts, braces and suspenders). 130971.

Hats and head coverings. 133334, 133335.

Miscellaneous. 133728.

neck-ties, bow *See* Wearing apparel, etc.

pleating, corrugating wearing apparel *See* Miscellaneous.

shrouds *See* Miscellaneous.

sleevelinks *See* Fastenings, dress, etc.

studs *See* Fastenings, dress etc.

Trouser and garment protectors, presses and like. 132745.

Wearing apparel including tailoring and dress making. 132369, 132745, 133201, 135341.

Drill rods for welding *See* METAL WORKING.

Drilling composition, *See* MINING ETC.

Dry cells, *See* BATTERIES, ETC.

Dry cells, electric, *See* BATTERIES, ETC.

Dry cleaning machine, *See* DYEING, ETC.

Dry molasses, *See* SUGAR.

DRYING SYSTEMS AND APPARATUS (EXCEPTING CENTRIFUGAL MACHINES; DISTILLING, ETC; STEAM SUPERHEATERS, HEATING SYSTEMS). VIII.

(*Removing water from liquid chemicals by treatment with chemical elements and compounds is indexed under only the headings for Chemicals treated*).

Air and gases used for drying, regulating flow and condition of. 131303, 131416, 134003.

Apparatus in which articles and materials are dried at rest or locally agitated. 130962.

centrifugal dryers, *See* Rotating, etc.

Charging, feeding and discharging devices, No Case.

Desiccants and absorbents. No case.

Drying air and gases. No case.

Endless band, moving tray and like travelling apparatus. 129975, 132204, 132382.

Heating apparatus, arrangement of. 129975, 130696, 130962, 131779.

Miscellaneous. 131303, 131779, 131882, 132533, 133281, 134003.

Rotating, shaking, oscilating and otherwise moving containers or drums. 129975, 130917.

Supports for articles and materials (excepting endless bands), construction of. No case.

Systems in which materials are dried by progressive movement other than endless band and rotating containers. 131416.

Duplicating machines, *See* PRINTING.

Duster *See* BRUSHING, ETC.

DYEING, BLEACHING, WASHING AND LIKE TREATMENT OF TEXTILES AND TEXTILE MATERIALS WITH LIQUIDS AND GASES. XXII (1)

(*Apparatus for applying liquids by single passage of material under a single roller or for applying size and other viscous liquids are indexed under* PROOFING)

Bleaching and washing textiles, process and materials for (other than washing, laundry and domestic)—

Other than by the use of oxidising and reducing agents. 131971.

Oxidising agents, by the use of. 131368.

Reducing agents, by the use of. 134255.

Dyeing, bleaching and washing otherwise treating textiles with liquids, and gases, apparatus for (other than for washikg domestic and laundry).
131193, 133199, 133918, 134560, 134567, 135058, 135123. 135323.

Processes and materials for dyeing textiles and other fibrous materials—

Dyeing by processes other than forming on the material. mordant and vat dyeing.129816, 129935, 129964, 130045, 130140, 130145, 130167, 130168, 130211, 130308, 130375. 130489, 130852, 130872, 131171, 131220, 131457, 131551, 131644, 131670 131926, 131938, 131939, 131967, 132217

Processes, Etc.—contd.
132227, 132341, 132566, 132614, 132628, 132708, 133145, 133548, 133596, 133708, 133840, 134107, 134209, 134268, 134414, 135011, 135038, 135335,.

Dyes, forming and developing on the material (other than stable preparations of diazo compounds). 130914, 132825, 133449.

Mordant dyes, dyeing with 130852, 132708.

Vat and sulphuretted dyes, dyeing with. 131863, 131971, 132708, 133519.

Treating textiles with liquids and gases, other than for bleaching dyeing and washing proofing. 129913, 130488, 130514, 130588, 131555, 131971, 131974, 132516, 133313, 133836, 133907, 134146, 134504, 134560, 134567, 134688, 135006, 135012.

Washing, mangling, ironing and starching clothes, domestic and laundry. 129888, 131157, 131882, 133708, 133751.

Dyeing of moulded textile articles, *See* DYEING ETC.

Dyeing using stabilised sodium hydrosulphite bath, *See* DYEING, ETC.

DYNAMO-ELECTRIC MOTORS AND GENERATORS LVII(1).

air gap monitoring device, *see* Miscellaneous.

Alternating current machines, general design of—
Commutator machines, 134340, 134354.

Induction machines. 132325, 132378, 133788, 135302.

Machines other than commutator and induction. 130111.

Armatures, cores, laminations and windings, details of. 131604, 133140, 133788, 133973, 135061, 135233.

Brushes, commutators and collectors, details of. 131501 133915, 134749, 134887.

Casings, frames, and supports, details of. 131659.

Cooling and ventilating systems for dynamo-electric machines. 131830, 134181, 135233.

Direct current machines, general design of. 134340, 134354, 134569, 134992, 135302.

Driving, arrangements of. 134553.

Electromagnets and magnets permanent, construction of. 130381, 131142, 132466, 132634, 132746, 132971. 133818, 134239, 134384, 134569.

magnetic cores, *see* Electromagnets, etc.

magnetic materials, *see* Eletcro-magnets, etc.

magnetic powers suitable for permanent magnets, *see* Electro-magnets, etc.

Miscellaneous. 130616, 131357, 131454, 131659, 132325, 135061.

Rotary converter and transformer systems. No case.

Edge treating glass streets, *See* POLISHING, ETC.

Electric cable splicing apparatus, *See* ELECTRIC COUPLINGS, ETC.

Electric coupler for railway cars *See* ELECTRIC COUPLINGS, ETC.

ELECTRIC COUPLINGS AND CUT-OUTS OTHER THAN ELECTROMAGNETIC AND THERMAL LVIII(4).

assembly station for splicing of communication cable *See* Electric couplings,—(Couplings other than, etc).

coupling, other than readily removable *See* Electric coupling,—(coupling, etc).

Cut-outs (other than electromagnetic and thermal). 130567, 130893, 131028, 132755.

Electric couplings—

Coupling other than plug and socket and like and junction boxes, etc. (including rod and wire couplings). 130218, 130634, 131839, 132272, 133038, 133246, 133362, 134128, 134193, 134307, 135158, 135281.

Junction, inspection, test and distribution boxes, ceiling roses. 133028, 133275, 133761, 133880, 133881.

Plug and soket and like two-part readily removable couplings. 130311, 130316, 130353, 130364, 131600, 132133, 132272, 133275, 133363, 133419, 133880, 133881, 134116 134196, 134771, 135293.

ELECTRIC CURRENTS CONVERTING AND TRANSFORMING OTHER THAN BY ROTARY CONVERTERS AND ROTARY TRANSFORMERS. LVII(2).

Converting alternating and direct—

Arc, spark-gap and other discharge producing apparatus (including vapour and vacuum apparatus), arrangement of. 133652, 133755, 134458.

By varying resistance, inductance and capacity (including arrangements of electrolytic and contact rectifiers). 134741, 135127 .

Commutator switching arrangements. 134929.

Systems of conversion (other than Arc, etc.; by varying resistance, etc; and Commutator, etc. 130111, 134765, 135118.

Transfromers—

Bases, cases and cooling and ventilation arrangements. 131830, 132539.

Cores, armatures and winding. 133374.

Regulating and constructional arrangements other than Cores, etc., Bases, etc. 131288, 131389, 132393, 134371.

Electric discharge lamp, current controlling device for, *See* ELECTRIC SUPPLY, ETC.

Electr ic furnaces *See* HEATING BY ELECTRICITY.

Electric heating apparatus *See* HEATING.

ELECTRIC LAMPS, INCANDESCENT AND ARC. LXIII(1).

(This heating does not include shades, reflectors and globes for which *see* LAMP CHIMNEYS).

Arc lamps. No case.

Battery lamps. 130197, 133717, 133754, 135313.

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Incandescent lamps, construction of—

Caps for bulbs (including connecting to bulbs). No case.

Filaments , supports for (other than leading-in-wires). 130129.

Forms and materials of bulbs and gases used. No case.

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Materials for filaments, their form, shape and arrangement of. No case.

Miscellaneous. 130700, 134312.

ELECTRIC LAMPS—*contd.*

Mounting parts in and closing bulbs (other than attaching filaments to leading-in-wires). 130700, 132856.

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ELECTRIC SIGNALLING SYSTEMS AND APPARATUS, OTHER THAN TELEGRAPHS AND TELEPHONES LI(2)

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Annunciators of indicators and alarm, (fire, police and like systems). 130197, 130459, 130460, 131019, 131029, 131669, 133002, 133282, 134652.

automatic controllers, electronic, *see* Selective signalling, etc.

electrically operated medicators for pneumatic control systems for Selective etc.

encoders in programmed process control systems, *See* Selective signalling, etc.

lamp for indicating power supply failure *see* Annunciators,etc.

margin indicating alarm device, *see* Annunciators, etc.

mixing fluids, automatic electric control system for, *See* Selective signalling , etc.

Non-selective signalling systems. 130116.

pick up for vidio signals, *See* Selective , etc.

Selective signalling and distant control systems (comprising means for transmitting or receiving a choice of signals or effects). 129872, 129895, 130244, 130713, 130835, 131094, 131110, 131111, 131204, 131289, 131343, 131566 , 131647, 131944, 132063, 132357, 132433, 133011, 133092, 133100, 133236, 133359, 133374, 133493, 133914, 134439, 134652, 134662, 134708, 134806, 134823, 134856, 134857, 135042, 135176, 135190, 135271, 135300.

ELECTRIC SUPPLY AND TRANSMISSION SYSTEMS AND APPARATUS. LVII(3).

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battery charging system for road vehicles, *See* Charging etc., boosting *see* System, etc.

Charging and controlling storage batteries. 131347, 131462 131643, 132265, 133382, 133671, 133755, 133774, 134280, 134281, 134356, 134363, 134439, 134495, 134496, 134720.

Conductors, arrangement and utilisation of for transmission and distribution and for installation wiring. 135160,135250.

current controlling in discharge lamps, *see* Systems for supplying etc. (Systems for vacuum, etc).

Dynamos and motors combined for transmitting power, *See* Electromechanical , etc.

equalisation of potential and current, *See* Systems, etc.

Electromechanical and electric systems for transmitting mechanical power. 131557.

Protective arrangements (other than those with automatic circuit breakers or other safety switches). 130470, 131643, 131893, 132393, 133065, 133609, 134044, 134982, 135127.

power supply system, automatic, regulation of *see* Systems, etc. (Automatic, etc.)

Systems for supplying and controlling consuming devices (other than motive power plant and storage batteries)—

Automatic systems of regulation. 129878, 129879, 130741, 131320, 131347, 131454, 131643, 132105, 132409, 132663 133037, 133065, 133373, 134015, 134439, 134495, 134496, 134652, 135127, 135250, 135 300.

Non-automatic systems of regulation. No case.

Systems for vacuum discharge apparatus. 132155, 133208.

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voltage regulator for alternators, *see* Systems, etc—(Automatic, etc.)

ELECTRIC SWITCHES AND ELECTROMAGNETIC AND THERMAL CUT-OUTS (EXCEPTING SELECTOR SWITCHES FOR TELEPHONES) LIX(1).

Automatic circuit breakers and other switches tripped or released by electrical means re-set by hand or by power, and retained set against the action of springs or gravity 130271, 131190, 131944, 132626, 133609, 134044.

connector contracts for, *see* Switches bases, etc.

contact members construction of, *see* Switch bases, etc.

Cut-outs or protective systems with safety switches and cut-outs controlled by variations in the conditions of the circuit 131893, 133509, 134818, 135210.

Electrolytic interrupters. No case.

Electromagnetic and magnetic switches (other than automatic circuit breakers tripped, etc, and cut-outs or protective systems with safety switches, etc). 130470, 130554, 130635, 130703, 130766, 131094, 131142, 131955, 132105. 132568, 132663,132791,132807,133513,133609,134752.

Make and break swtiches, mechanical, adapted for continuos operation. 129934, 130389, 130505, 130554, 130635, 130704, 131288, 131534, 132172, 132173, 132174, 132307, 132418, 132784, 133283, 133348, 133496, 133497, 133667, 133708, 133830, 134609, 134762, 134793, 135332.

electro magnetic relays for protection of motors *see* Electromagnetic, etc.

locking switches, for vehicles, *see* Miscellaneous.

Mechanical switches, inert without spring (including switches operated by tilting, by vibration or by gravity). 133135, 134608, 134779, 135037.

mechanical switches, operated by spring form, *see* Mechanical switches, retained , etc.

Mechanical switches, retained set, against quick action spring or gravity return, by batches, overset parts and friction grip and other mechanical devices. 129851, 129934. 130107. 130389, 130505, 130554, 131534, 131885. 132172. 132173. 132174, 132280, 132639, 132784, 132868, 133497. 133706. 133830, 134116, 134216, 134306, 134399, 134958, 135332.

Mercury and other conducting liquid switches. No case.

Miscellaneous. 130107, 130429, 130634. 132172. 132173. 132174, 133157 133173, 133429. 133497. 133910. 134282. 134532, 135037, 135127.

Momentary contact switches (mechanical switches which in single stroke of operating member make and break a circuit once or a definite number of times). No case.

movable contact member, *see* Switch bases. etc.

Oil-break, air-break and other high temperature and heavy current switches. 131190. 131337. 133135. 133601. 134256. 134700.

Press-button and other mechanical switches which retract upon removal of operating force. 129851, 133208. 133497. 134137. 134138.

press-button-switch, *see* Press-button. etc.

pressure sansitive switches *see* Miscellaneous.

relays. contact making. *see* Electromagnetic. etc.

rotary switches. spring operated. *see* Mechanical. etc.

Snap-action switches (springs, during a single "on" and "off" operation, are first strained and then relaxed to assist or to produce switching movement). 130505, 131167.

Spark-preventing and arc-rupturing devices. 131337, 133135, 133350, 134256, 134876.

Switch bases, covers, cases and contact members, constructions of, 130634, 131600, 131682, 131839, 132562, 133208, 133350, 133496, 133609.

Switch-boards and equivalent switch-gear structures, No case.

Thermal switches, cut-outs and interrupters. 130634, 134610.

Thermostatic switches, *see* Thermal switches, etc.

Electrical cable, plastic insulated, *See* CONDUCTORS, ETC.

Electrically conducting photographic papers, *See* PHOTOGRAPHY ETC.

Electrically operated indicators for visual indication, *See* ELECTRICAL SIGNALLING, ETC.

Electro-deposition processes, *See* ELECTROLYSIS.

Electrode for electrochemical process, *See* ELECTROLYSIS, ETC.

Electro-deposition of shellac on metals, *See* ELECTROLYSIS, ETC.

Electrodes, useful as anodes in electrolytic cells, *See* ELECTROLYSIS, ETC.

ELECTROLYSIS AND ELECTRO-DEPOSITION LVIII (5).

Cathode casing for electrolytic furnace, *See* Diaphragms etc.

Cells receptacles and apparatus, other than diaphragms electrodes. 130298, 131090, 132513, 132524, 132698, 132699, 133739, 134084, 134186, 134489, 134873, 134874, 135096.

Chromium depositing on metallic surface, *See* Processes, etc.—(Metals, etc.).

Compounds of metals, depositing, *see* Non-metallic, etc.

Diaphragms and electrodes, forms, construction and mounting of. 130289, 130477, 130653, 130688, 131064, 131149, 131328, 131428, 131490, 131788, 131852, 131909, 132376, 132519, 132589, 133987, 134051, 134375, 134471, 134489, 134873.

Processes—

Electro-osmotic. No case.

Fused electrolytes, metals, obtaining from. 130289, 130674, 131317, 132698, 132699.

Liquids, treating for purifying and like purposes. No case.

Metals and alloys, obtaining and depositing from aqueous electrolytes. 130686, 130688, 131261, 131502, 131959, 132589, 132736, 132895, 133772, 133808, 134017, 134019 134084, 134121, 135096, 135213.

Miscellaneous. 129998, 131090, 131561, 131636, 131645 131960, 132524, 132846, 134186, 135147.

Non-metallic substances, obtaining and depositing. 130295, 130472, 130686, 131090, 131261, 131311, 131502, 132089, 132423, 132715, 132761.

Organic solutions treating (other than liquids treating for purifying). 130295.

Electrolytic cells, *See* ELECTROLYSIS, ETC.

Electromechanical filter for resonators, *See* TELEGRAPHS ETC.

Electrophotographic printing process, *See* PHOTOGRAPHY.

Electrostatic copying apparatus, *See* PHOTOGRAPHY.

Electrostatic image reproducing apparatus & method, *See* PHOTOGRAPHY.

Elevator conveyor, *See* LIFTING, LOADING, ETC.

Embroidery frames, *See* SEWING, ETC.

Emulsions, *See* CHEMICAL PROCESSES, ETC.

Enclosure for electronic components, *See* WIRELESS, ETC.

Encoders in programmed process control systems, electric, *See* ELECTRIC SIGNALLING, ETC.

Endless belt conveyors, *See* LIFTING, ETC.

Endless flexible laminated structures, manufacture of, *See* PROOFING, ETC.

Enzyme treated protein food, *See* FOOD PREPARING, ETC.

Ester of 17β-hydroxy-steraids containing oxo-group preparation of, *See* CARBON COMPOUNDS, ETC.

Esters, *See* CARBON COMPOUNDS, ETC.

Esters, preparation of, *See* CARBON COMPOUNDS, ETC.

Esters, reducing acidity of, *See* CARBON COMPOUNDS, ETC.

Etching aluminium electrolytically, *See* ELECTROLYSIS, ETC.

Ethylene glycal ethers, *See* CARBON COMPOUNDS, ETC.

Ethylene polymerisation, *See* CARBON COMPOUNDS, ETC.

EXCAVATING XXVIII (1).

(Excepting AGRICULTURAL implements Boring earth and rock).

Blasting. 132082.

Digging, picking, channelling and slitting apparatus (including rotary scrapers), other than agricultural implements. 129937, 130629, 131024, 132222, 132570, 134527, 135265.

Earth scrapers, *See* Digging, etc. (132222).

Discharging soil. No case.

Endless chain machines. 131024, 132570.

Grab and scoop-arm machines. 131024, 133455, 133484, 133485, 134528, 134632.

Hydraulic mining and scouring apparatus (including methods in which water breaks away the ground; jet apparatus caissons, piles, and shafts by jetting). 134420.

Miscellaneous. 132114, 134173.

Exercising apparatus, *See* GAMES, ETC.

Expansion joints. *See* PIPE-JOINTS, ETC.

EXPLOSIVES AND PYROTECHNICS. XXXIX (3).

Explosive materials and compositions, containing liquid air or liquid oxygen. 132454, 134206, 135181, 135182.

Explosive materials and compositions, other than containing liquid air or liquid oxygen. 130287, 131509, 131803, 132454, 132545, 133434, 133847, 133883, 133902, 134188, 134250, 134766, 135040, 135110.

Miscellaneous. 131591, 131831, 132627.

Pyrotechnic apparatus and pyrophoric and flash light compositions and ribbons. No case.

Explosive composition. *See* EXPLOSIVES, ETC.

Extrusting apparatus for casting from moulds, *See* CASTING METALS.

Extraction of soluble substance from vegetable matter, *See* FATS, ETC.

Extraction of soluble substance from vegetable matter, *See* SUGAR.

Extruded and/or covered sections, production of, *See* MOULDING, ETC.

Extruding composite billets into wires, *See* METAL WORKING.

Extrusion and injection moulding machine, *See* MOULDING, ETC.

Exudation bandage, *See* MEDICAL, ETC.

F

FABRICS. FINISHING AND TESTING. XXII (2)

130669, 131535, 131555, 131589, 132463, 132492, 132540, 132708, 133238, 133820, 133836, 133903, 134567.

FABRICS, WOVEN. XXI (1)

132683, 132711, 134513.

FARES AND ADMISSION FEES, CHECKING AND SPEED INDICATORS. XLI (5).

No case.

FASTENINGS, MISCELLANEOUS. LXIV (4)

(*Comprising only connections of a temporary character, readily releasable and no forming part of structures secured. This heading does not include bale tie fastners*, BOLTS; CHAINS DOOR AND GATE OPERATING APPLIANCES; DRESS FASTENINGS, LOCKS; NAILS AND ROPES AND CORDS).

Automatically operated railway carriage door fastenings. No case.

Clips and clamps. 129824, 129860, 129977, 130781, 132816, 133843, 134400, 134401, 135121.

Doors and windows, special fastenings for, not covered by other sub-divisions. 131904.

Hasp and like hinged and pivoted fastenings. 134576.

Miscellaneous. 129824, 130781, 130898, 131222, 131601, 131608, 132871, 133732, 134167, 134400, 134401, 134991, 135022.

Multiple fastenings. No case.

Operated or controlled from distance. 131360, 132902.

Seal fastenings. No case.

Sliding bolts and latches. 132262, 132643, 132902, 134577.

Stud or ball and eye or socket fastenings. No case.

Fatliquoring leather, *See* LEATHER.

FATS AND FATTY OILS (EXCLUDING BUTTER AND THE LIKE XI (1)

(*Steps in the production of fats and fatty oils involving Improvements in connection with areating, cooling, crushing and grinding, distilling, drying, filtering, mincing, mixing, moulding and preserving are indexed under headings denoting such operations*).

Compositions containing fats and fatty oils and drying oils. 133921, 135117.

Extracting and obtaining (other than recovering from waste products)—

By pressure. 130970.

By solvents. 130970, 131854, 132744.

Fatty acids, *See* CARBON COMPOUNDS, ETC.

Hydrogenated and modified fats and fatty oils. 132310.
Purifying. 130749, 131137.

Recovering from waste products. 134092.

Feeding individual components of rail fastenings of railway tracks, *See* RAILWAY, ETC. PERMANENT, WAY, ETC.

Feeding sheets and webs in printing press, *See* WEBS, ETC.

FENCING, TRELLIS AND WIRE NETTING. XXVII(2)
132130.

Fibres material, dyeing of, *See* DYEING, ETC.

Fibres material, printing, of *See* PRINTING.

Ferritic alloys, *See* ALLOYS.

Ferro-alloys, *See* ALLOYS.

Fertilizers, *See* MANURES, ETC.

Fermentation of tea, *See* TEA MANUFACTURE, ETC.

Ferric oxide, *See* CHEMICAL COMPOUNDS, ETC.

FILING PAPER AND LIKE SHEETS. XLII (3)

130614, 131743, 132199.

Filter presses, *See* FILTERING, ETC.

Filter tips for cigarettes, *See* CIGARS, ETC.

Filtering air and gases, *See* AIR AND GASES, ETC.

FILTERING AND STRAINING LIQUIDS. VI

Block filters (comprising apparatus in which filtering materials consist of earthenwaere, stone and other rigid porous materials and compositions). 131040, 131560, 133256, 133257, 135338.

Filter and contact beds. 134072, 134948.

Filter presses. 130457, 132117.

Filters with loose filtering materials (other than filter and contact beds). 133528.

Media, filtering. 132472, 134979.

Moving, filters (including centrifugal filters). 130924, 134669, 134810.

Presses for separating liquids from solids by compression. 132117.

Separating liquids from liquids, solids and mixtures by gravity only, apparatus for. 133783.

Strainers and filters having sheet filtering materials (including grids and gratings but not rigid porous materials. 133643.

Tube well strainers and like (strainers on pipes). No Case.

Unclassified types of filters. 130415, 131040, 131172.

Fire alarm device, *See* ALARM FIRE, ETC.

Fire extinguishing composition, *See* FIRE, ETC.

FIRE EXTINGUISHING AND PREVENTING. XXXIX(4)

129968, 130252, 130310, 133490, 134798.

FISH AND FISHING. XIV(5)

130428.

Fish protein isolate, *See* FOOD ETC.

Fixation of dyestuffs on textile materials. *See* DYEING, ETC.

Flame guard for furnaces. *See* FURNACES, ETC.

Flame retardant finish composition, *See* PROOFING ETC.

Flavanthrone dyestuffs, *See* CARBON COMPOUNDS, ETC.

Flavouring compositions, *See* FOOD PREPARING, ETC.

Flexible hose pipes, *See* PIPES, ETC.

Flexible laminated sheet material, *See* PROOFING, ETC.

Fluid operated actuators, *See* HYDRAULIC PRESSES, ETC.

Fluid seal joints, *See* PIPE JOINTS. ETC.

Fluids mixing up in proportionate quantities, *See* MIXING ETC.

Fluorescent pigments, *See* PAINTS, ETC.

Foamed plastic, *See* PLASTIC, ETC.

FOOD PREPARING AND PRESERVING. XIV (5).

(*This heading does not include tea and like preparations and substitutes. Steps in the process of food production such as bottling, concentrating or distilling, cutting or mincing, drying, emulsifying, filtering, flavouring, grinding, mixing, moulding, and packing are indexed under headings denoting such operations*).

FOOD PREPARING ETC.

Food preparations—

Cereals, vegetable, fruits, and Confectionary. 130352, 130579, 130649, 131045, 131553, 131163, 131164, 131230, 131553, 132375, 132758, 133097, 133277, 133472, 133542, 133658, 133670, 133985, 134092, 134537, 134739, 135135.

Dairy food 130807, 131243, 132165, 132310, 133277, 134441, 134463, 134464, 134698.

Meat, fish and eggs. 131063, 131163, 131164, 131553, 131854. 132952, 133657.

Yeast and yeast extracts. 131230, 133624, 135091, 135347.

Food preserving, sterilsing and conditioning—

By cooling and cold storage. 132482, 133029.

By gases and vapours. No case.

By heating, cooling or drying 130511, 130512, 130579, 132482, 135239.

By treating with liquid preservatives. 131045, 131063, 131553, 133093, 135105.

Miscellaneous. 129871, 130428, 130511, 130512, 131054, 131063, 131137, 131705, 133029, 133468, 135251.

Storage receptacles and chambers. No case.

Formaldehyde. *See* CARBON COMPOUNDS, ETC.

Formation of sheets of glass fibres, *See* GLASS, ETC.

Forming article from vulcanizable materials. *See* MOULDING, ETC.

Foundry moulds, *See* CASTING METALS.

Fractose, *See* SUGAR.

Freeze dried rice, *See* FOOD PREPARING. ETC.

French polish, *See* SOAPS, ETC.

Friction applying elements, *See* BRAKES. ETC.

Friction clutch, pneumatic, *See* MECHANISM.

Friction clutches, *See* MECHANISM, ETC.

Friction material for brakes, *See* BRAKES. ETC.

Friction material for clutches, *See* MECH. (MISCELLANEOUS).

Fuel control system for gas turbine engines, *See* TURBINES, ETC.

FUEL MANUFACTURE OF. XXXII (2).

(*Excepting* COKING, AND GAS MANUFACTURE).

Gaseous fuel. 134619.

Liquid fuel preparations (other than solidified and gelatinised oils). 130142, 130519, 130773, 131609, 132046, 132549.

Solid and powdered fuel (other than solidified and gelatinsed oils)—

From various forms of carbon (comprising coal, lignite, carbonaceous shales, coke, charcoal and soot). 129885, 135235, 135236.

Other than from various forms of carbon. No case.

Solidified and gelatinised oil fuels. No case.

FURNACES AND KILNS. XXXI.

(*Excepting* BURNERS, *and* STOVES, *converters, metallurgical are indexed under* IRON & STEEL. ETC.).

Air heating furnaces. No case.

Casings, walls, arches and roofs. 130542, 132486, 133116, 134304.

Charging, discharging and fuel feeding. 130141, 131255, 133202, 134258.

Crucibles and melting pot furnaces. No case.

Doors, lids, door frames and furnace fronts. No case.

Firebars, grates, fire-bridges and ash-pans. 134498.

Furnaces of miscellaneous type. 133054, 133829, 133861.

Kilns, brick, pottery and like and tunnel furnaces. 131124.

Liquid and gaseous fuel combustion apparatus. No case.

Miscellaneous. 129875, 130141, 131053, 131470, 132235, 132311, 132696, 133784, 134461, 134674, 134914, 135321.

Pulverised fuel combustion apparatus. 132498.

Refuse, consuming and destructor furnances. 130952, 131244, 134709.

Regenerators and regenerative fittings for furnances. 131855. 133784.

Retort furnaces (excepting coke-ovens) No case.

Reverberatory, open hearth and like furnaces. 132198, 132214.

Roasting and calcining and otherwise treating pulverulent and pasty materials, furnances for (other than kilns, reverberatory, rotary and shaft furnaces). No case.

Rotary furnaces and kilns. 130379, 132064, 132269, 132690, 133055, 133499, 133983, 134730, 135200.

Shaft and like furnaces (including blast and cupola). 130784. 132906, 132948, 133202.

Smoke preventing and consuming. 134166.

Tilting and oscillating furnaces. 134419.

Tyre for rotating kilns, *See* Rotating furnaces, etc.

Furnace to carry out the endothermic conversions, *See* CHEMICAL PROCESSES, ETC.

FURNITURE LXVI (4)

Cabinets, wardrobes, book cases and miscellaneous furniture and fittings. 129906, 130565, 131924, 134937.

Chairs, seats, bedsteads and like furniture for sitting and laying upon. 130086, 130314, 130410. 131031, 131066, 131128. 131631, 131672, 131701, 131702, 132026, 132038, 134395, 134734, 134777, 134795, 134814, 134831, 135227.

Tables, desks, and leaf-turners and holders. 130314, 130779, 131588, 131702, 134065.

Upholstery, wall furniture, screens and looking glass. 129921, 129922, 130971, 131072, 134240.

Window, stair and like furniture, brackets, racks and stands, 130565, 133849.

Fuse cord. *See* AMMUNITION, ETC.

Fuses for projectiles, *See* AMMUNITION, ETC.

GAMES, TOY— AND AMUSEMENT APPARATUS. XLII (4

Amusement, recreative and exercising apparatus (other than games and toys). 129970, 129972, 131677, 131678, 131952, 132344, 132561, 132641, 134566.

Balls for games. 133668.

Bats, clubs, rackets and like striking appliances for games. 131491.

Indoor games (other than construction of bats and striking appliances). No Case.

Miscellaneous. 131886, 131887, 132344.

Outdoor games (other than construction of bats and striking appliances, but including preparation of ground for). 133291.

Presses for rackets, tennis and like. No case.

Racing games. No case.

Toys. 130879, 130880, 131524, 131887, 132964, 133995.

Gas burners, *See* BURNERS, ETC.

Gas liquid contacting tray, *See* DISTILLING, ETC.

GAS MANUFACTURE (OTHER THAN BY GAS PRODUCERS AND RETORTS) AND DISTRIBUTIONS. XXXII(3).

(*This heading includes the manufacture of combustible gaseous products for illumnating, heating and motive power purposes*)

Collection of gaseous or liquid by-products. 131729.

Gas enrichers (in which gas is not burned (immediately), including enriching compositions.

No case.

Gas holders. 133966.

Miscellaneous. No case.

Production of permanent gas by dissociation or partial combustion of liquid fuel (excepting cracking). 130009. 130950, 131896, 132456, 134325.

Washing, scrubbing or otherwise treating gases with liquids. 130011, 130452, 131035, 132014, 133051, 134072, 134166, 134343, 134369, 134689, 134847.

Gas producers *See* COKING, ETC.

Gas sampling system, *See* CHEMICAL PROCESSES, ETC

Gas turbines, control apparatus for, *See* TURBINES, ETC.

Gasification of carbonaceous materials, *See* COKING ETC.

Gasification of coke, *See* COKING ETC.

GAUGES, MEASURES OF LENGTH AND TESTING APPARATUS XLI (6).

130097, 130133, 131210, 131272, 131273, 131332, 131589, 131795, 131844, 131937, 132107, 132463, 133209, 133578, 133860, 133879, 133904, 133972, 134052, 134169, 134170, 134316, 134717, 135033.

Gels, *See* CHEMICAL PROCESSES, ETC.

Gems, cutting and working, *See* STONE CUTTING, ETC.

Glass flake pigment coating, *See* PAINTS, ETC.

GLASS MANUFACTURE XXXVI.

Annealing, tempering and toughening glass.
132286, 132530, 132531, 133906 135089.

Blowing hollow-ware. 135102.

Bonded product, *See* Misc., etc.

Compound or laminated glass sheets.
130949, 131744, 132286, 134178 135320.

Cutting glass, *See* Cutting or dividing.

Cutting or dividing. 132036, 135014.

Delivering and gathering molten metal.
138113.

Drawing and extruding.
130294, 131571, 131996, 134533, 134705, 134706, 135128

Enamels and enamelling vitreous. No case.

Glass containers, apparatus for testing, *See* Miscellaneous.

Glassware forming by miscellaneous processes.
129902, 129903, 129904, 129981, 129982, 133457.

Miscellaneous.
129912, 130294, 130350, 130993, 131165, 131563, 131641, 132245, 132542, 132917, 133974, 133975, 134706, 135089, 135090, 135128, 135208, 135304, 135324.

Moulding and casting (other than blowing)
135102.

Production and purifications of metal.
131420, 131750.

Scoring sheets of, *See* Cutting, etc.

Glass material, preparation of, *See* GLASS MANUFACTURE.

Glass sheets cutting, *See* GLASS MANUFACTURE.

Glazing bars, *See* DOORS & WINDOWS.

Globules of lime and dolomite, prior to burning, *See* CEMENT, ETC.

Glycol esters, preparation of, *See* CARBON COMPOUNDS, ETC.

GOVERNORS, SPEED-REGULATING FOR ENGINES AND MACHINERY. XLIV (2).

130568, 133236, 134721.

GRAIN AND SEEDS, TREATMENT OF (INCLUDING TREATMENT & PRODUCTION OF FLOURS AND MEALS). II (3).

(*This heading includes the treatment in bulk of single stone fruits and nuts for the removal of pericarp methods and apparatus not resulting in such modification are indexed under various headings for the processes such as* DISINFECTING, ETC. ; FOOD, ETC. ; SIFTING, ETC.).

Damping with and otherwise applying water and other liquids.

130997, 132395, 133021, 133097, 135064.

Flattening by mechanical means. No case.

Hulling, husking and decorticating mechanically.
130595, 131007, 131343, 133705, 134030, 134201.

Miscellaneous.

133021, 135064.

Production and treatment of flour and meal (including processes of mechanical reduction other than treating by air, gases and liquids).
130997.

Roasting grains, cereals and like granular food products.

131007, 134201, 134244.

Sampling granular materials. No case.

Scouring and polishing. No case.

Thrashing appliances. No case.

Treating by air, gases or vapours (including steaming and heating indirectly). 131007.

Treatment of seeds, with triazole derivatives, *See* Miscellaneous

GRANULATING FUSIBLE MATERIALS. XXXIII (4).
130532, 135024.

Graphite, *See* NON-METALLIC, ETC.

Graphite chemical refining thereof, *See* NON-METALLIC ETC.

GRINDING, CRUSHING, PULVERISING AND LIKE DISINTEGRATING. XXXIV (2).

(*This heading does not include Agricultural implements* (AGRICULTURE) ; *Graters and crumblers* (COOKING) ; *Hulling, husking and decorticating grains* (GRAIN, ETC.); *Rag engines* (PAPER) ; *Preparation of fibres for spinning* (SPINNING) ; *Cutting and breaking tea* (TEA MANUFACTURE) ; *Thrashing machines* (GRAIN AND SEEDS, ETC.)

Ball and tube mills.

130647, 132841, 133146, 133361, 133813, 134279, 134855.

Conical and like mills.

No case.

Disc and like mills (stone mills).

134855, 134885.

Edge-runners and pans and like mills. No case.

Feeding devices for granular and like materials *See* Miscellaneous.

Grinding and breaking by direct percussion (including stamps for ores and pestles and morters) No case.

Impact pulverisers. 134218.

Miscellaneous types of mills and details.

131982, 132748, 132945, 133146, 133468, 133634, 133813, 134882, 134885.

Roller mills other than sugarcane mills. No case.

Sugarcane mills. 132117.

Grinding metals, other than milling, *See* POLISHING, ETC.

Grinding wheels, *See* GRINDING ETC.

Gripping device for wire ropes *See* ROPES, ETC.

Grit chamber, *See* CHEMICAM PROCESSES, ETC.

Gynaecologycal device, *See* MEDICAL, ETC.

Hand tool for turning and screwing *See* HAND TOOLS.

HAND TOOLS. XLIII(2).

(This heading does not include Boring and Drilling tools).

Box openers, crow-bars and like prizing tools.

No case.

Chisels and gouges. No case.

Cramps and clamps and vices.

130241, 130495, 132709, 132710.

Extracting and removing nails, tacks, rivets, keys, cotters, collars, hand-tools for.

No case.

Files and rasps. No case.

Handles for hand-tools, including those for brushes, cutlery, mop and the like. No case.

Mallets and hammers. No case.

Miscellaneous. 135252.

Pliers, cutters, pincers, and tongs.

130546, 133827, 135252.

Screw drivers.. 132873.

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HARNESS, SADDLERY AND HORSE SHOES XXIV (2).

No Case.

Hatch covers for ships. drive means for *See* SHIPS, ETC.

Heat exchangers. *See* HEATING SYSTEMS, ETC.

Heat insulating and non-conducting covering, *See* HEATING SYSTEMS.

Heat insulating material, *See* HEATING SYSTEMS ETC.

Heat interchange apparatus, *See* HEATING SYSTEMS, ETC.

Heat treatment of lime sludge and sewage sludge, *See* SEWAGE, ETC.

Heat treatment of metals for modifying physical characters, *See* ANNEALING, ETC.

HEATING BY ELECTRICITY, LIX (2).

Arc furnaces.

130025, 133100, 133130.

Electrodes for electric furnaces.

131212.

Heaters for liquids and accessories therefor.

130017, 132225, 133320, 133422, 134086.

Hot plates, boiling rings, and like appliances (other than adapted for use as radiators).

133185, 134060.

Induction furnaces and ovens and other furnaces not classified.

No case.

Miscellaneous.

129805, 130017, 130848, 132864.

Radiators, imitation fires, and stoves for heating buildings or vehicles.

130017.

Resistance furnaces (the resistances forming parts of the furnace of oven).

135183.

Heating pulverulent material, *See* HEATING SYSTEMS, ETC.

HEATING SYSTEMS AND APPARATUS (OTHER THAN FURNACES AND STOVES). VII(2).

(*Heating, processes and apparatus applicable to* BURNERS: FURNACES ; STEAM GENERATORS ; STEAM SUPERHEATERS ; STOVES *are excluded from this heading*).

Buildings, ships and vehicles, systems for heating.

131569.

Digesters (closed heaters in which substances are disintegrated with liquids).

130261, 131720, 131980, 135132.

Feed-water for hot-water boilers and steam generators, heating.

No case.

Heat exchangers, *See* Surface apparatus, etc.

Heat insulating material, *See* Non-conducting coverings.

Heat interchange devices, *See* Surface apparatus, etc.

Liquids and gases, heating (other than feed-water heaters ; and apparatus involving structural modifications of furnaces and stoves).

133143, 133144, 135318.

Miscellaneous heating systems.

130003, 130126, 130303, 130683, 130985, 130986, 131067, 131344, 131372, 131628, 132235, 133144, 134201, 134352, 134724, 135318.

Non-conducting coverings for heat and sound (including fire proof coverings and linings).

131627.

Surface apparatus for effecting transfer of heat (other than apparatus in which heat is transferred from products of combustion).

129875, 130053, 130058, 130284, 130303, 130644, 131057, 132037, 132450, 133055, 133162, 134724, 134743, 134905, 135029, 135057.

(*Adaptation and arrangements of surface apparatus for special purposes are indexed only under separate headings, such as* COOLING, ETC. : DISTILLING, ETC. ; STEAM-GENERATORS ; STEAM SUPERHEATERS ; FURNACES, ETC.).

(*Apparatus for effecting transfer of heat from products of combustion are indexed only under* STEAM GENERATORS *or* STEAM SUPERHEATERS).

Thermostats and like apparatus for regulating temperature.

130122, 130695, 131307, 132105, 133466.

Utilising for heating and power purposes solar and natural heat.

131707, 133593, 134246, 134415.

HOLLOW WARE. XL(4).

[*Ecepting bottles for storing air and gases under pressure* (AIR AND GASES) ; *bed pans* (CLOSETS ; BOTTLES, ETC.) ; *cold and heat retaining vessels* [(COOLING) ; *cruet and like receptacles and drinking vessels and other table articles* (TABLE ARTICLES), *tea and like infusions making apparatus for* (DECOCTIONS) *and wash hand basins* (CLOSETS)].

Herbicidal compositions, *See* DISINFECTING, ETC.

High octane gasoline, *See* DISTILLING, ETC.

Holders for electric lamps, *See* ELECTRIC LAMPS, ETC.

Buckets, pails, baking, heating, cooking and like vessels metallic.

132422.

Bungs and bushes for bungholes, *See* STOPPERING.

Cans and boxes, opening by cutting or tearing.

130874, 131256, 132821, 134787.

Casks and barrels.

132821.

Filling with liquids, casks and like vessels ; *See* STOPPERING

Lids and covers not forming tight joint with receptacles.

No case.

Lids forming tight joint with receptacles, *See* STOPPERING.

Miscellaneous.

131018, 131358, 131468, 131707, 132228, 135133.

Non-metallic vessels, other than casks and barrels.

131342, 132569, 134240.

Spouts. No case.

Tubes or containers, collapsible.

131237, 132056, 132405.

Hose pipes, *See* PIPES, ETC.

Hose with tapered bore, *See* PIPES, ETC.

HOT-AIR AND COMPRESSED-AIR ENGINES. XLVI(1)

132730.

Hulling or husking grain and seeds, *See* GRAINS AND SEEDS, ETC.

Hydraulic brake fluid, *See* OILS, ETC.

HYDRAULIC ENGINEERING, MISCELLANEOUS. XXVIII(2).

(*This heading includes sub-aqueous buildings, canals, flow meters, siphons, sluice gates and the like*).

Booms and like defences for coasts, harbours and rivers.

133719.

Building, and structures, sub-aqueous.

130127, 130560, 131043, 132050, 133117, 133719, 134171, 135201.

Canals and rivers. No case.

Fountains, hydrants, standpipes and water cranes.

No case.

Liquid meters and venturi, pitot-tube and other velocity measuring apparatus.

133676, 135066.

Miscellaneous.

130064, 131915, 133980, 134171, 135079.

Siphons. No case.

Sluice-gates

131915.

Spray producers ; *See* SPRAY PRODUCERS, ETC.

HYDRAULIC PRESSES, METERS, MOTORS AND LIKE APPARATUS FOR USE WITH HIGH PRESSURE. XXIX(1)

Fluid operated actuating device, *See* Machines, etc.

Hydraulic presses (including steam and other fluid pressure presses and hammers).

130776, 131461, 131924.

Hydraulic transmission of power.

132282, 134319, 134509, 134510, 134511.

Liquid pressure engines and liquid metres.

132010, 133567.

Machines and apparatus, miscellaneous.

130834, 131461, 132010, 132047, 132156, 132279, 132488, 132674, 132935, 133514, 133655, 133841, 133863, 134022, 134177, 134518, 134852.

pressure variation producing apparatus, *See* Machines, etc. (131461).

tarque convertors, *See* Machines, etc.

Hydrocarbons, alkylation of, *See* CARBON COMPOUNDS, ETC.

Hydrocarbons steam reforming, *See* CARBON COMPOUNDS. ETC.

Hydrocarbons steam reforming of, *See* DISTILLING, ETC.

Hydrodesulfurization catalyst, preparation of, *See* CHEMICAL PROCESSES, ETC.

Hydrogen fluoride, *See* CHEMICAL COMPOUNDS, ETC.

Hydrogen fluoride removing from gases, *See* CHEMICAL COMPOUNDS, PROCESSES, ETC.

Hydrogen-oxygen recombining in the presence of catalyst, device for *See* CHEMICAL PROCESS, ETC.

Hydrogen sulphide, *See* CHEMICAL COMPOUNDS, ETC.

Hydrogenating petroleum cuts, *See* CARBON COMPOUNDS, ETC.

Hydrogenation of coal, *See* DISTILLING, ETC.

Hydrothermal treatment of concrete, *See* **CEMENT ETC.**

Hydroxylammonium phosphate, *See* CHEMICAL COMPOUNDS, ETC.

I

Ice-cream machines, *See* COOLING, ETC.

Igniting circuits for internal combustion engines, *See* INTERNAL COMBUSTION, ETC.

Ignition circuits for internal combustion engines, *See* INTERNAL COMBUSTION, ETC.

Ignition coil, *See* ELECTRIC CURRENTS, ETC.

Ignition distributors contact breaker assembly for, *See* INTERNAL, ETC.

Imidazo—(4, 5-b) pyridine compounds, *See* CARBON COMPOUNDS, ETC.

INCRUSTATION AND CORROSION OF METALLIC SURFACES PREVENTING AND REMOVING XLV (1).

129818, 130923, 131873, 132080, 132102, 132103, 132247, 132248, 132398, 132400, 132470, 132736, 132761, 133443, 133738, 134827, 135030, 135127.

INDIA RUBBER, GUTTA-PERCHA, MICA AND LIKE MATERIALS OF CONSTRUCTIVE UTILITY, XII (1).

bladders and like hollow inflatable rubber articles making, *See* MOULDING, ETC.

Coagulating and otherwise separating from latex.

No case.

Colouring, ornamenting, variegating and metallizing. No case.

Curing and treatment of latex before and after coagulation.

132396, 134431.

Devulcanising and utilising waste. No case.

Embedded wires, fibres and the like.

130944, 131641, 131749, 135104.

India rubber compositions.

122919, 130346, 130558, 130648, 130831, 130944, 131139, 131648, 131749, 132397, 133425, 134016, 134076, 143154, 134758.

Latex, collecting and extracting from plants. No case.

Machines for creping, calendering, washing, drying, purifying, rolling, and mechanical extraction from plants.

131416.

Mica and other naturally occurring materials of constructive utility.

132809.

Miscellaneous.

132396, 133432.

Rubber, rendering porous, spongy or powder.

132622, 134101.

Seaming and otherwise joining. 132908.

Seaweed and like marine products, treating.

No Case.

Sheets, threads, tapes, rods rollers, cylinders and tubes making.

130944, 130555, 133909.

Substitutes for rubber. 132642.

Vulcanising.

130254, 130346, 130487, 130558, 131671, 132396, 132503 133425, 133622, 134076, 134077, 134418, 134444, 134564, 134758, 134792, 135108, 135176.

Indicating failure of electric supply, *See* ELECTRIC SIGNALLING, ETC.

INDICATING, RECORDING AND REGISTERING APPARATUS, MISCELLANEOUS, XLI (7).

(*This heading includes the terminal elements of measuring Instruments whereby an indication at the moment is furnished, a permanent record is made, or a totalising is effected by integration. Dials, knobs, handles, scales and other graduated and reading elements for manually adjusting and setting the parts of measuring instruments and other apparatus, of which the reading-elements are not of interest as indicating means in general, are indexed under* separate heading for the apparatus).

Calendars and date indicators.

134272.

Indicating.

130623, 131307, 131669, 131844, 132264, 132353, 132517, 133554, 134102, 135115.

margin indicator device, *See* Indicating, etc.

Miscellaneous.

131307, 131885.

Recording and registering.

131093, 131307, 131844, 132860, 134102.

Indicator, electric, *See* ELECTRIC SIGNALLING, ETC.

Indoles, *See* CARBON COMPOUNDS, ETC.

Inflatable chair, *See* FURNITURE.

Ingots casting, *See* CASTING METALS.

INJECTORS AND EJECTORS XLVII (2).

No case.

Ink capsules, *See* WRITING, ETC.

Insecticidal compositions, *See* DISINFECTING, ETC.

Insulated cables with semiconductive outer layer, *See* CONDUCTORS, ETC.

Insulated conductors, *See* CONDUCTORS, ETC.

Insulating materials, heat and sound, *See* HEATING SYSTEMS, ETC.

Insulation of electrical conductors with heat resistant resins, *See* CONDUCTORS, ETC.

Integrated semiconductor device, *See* WIRELESS, ETC.

INTERNAL COMBUSTION ENGINES, XLVI(2).

(*This heading includes features specially designed and adapted for internal combustion engines. Construction of engine details and accessories of interrst apart from internal combustion engines are indexed under such headings as* BRAKES ; FILTERING ; LUBRICATING ; MECHANISM, MISCELLANEOUS ; STEAM ENGINES; VALVES ETC.).

Bed-plates, frames and casings. No case.

charge mixing devices between carburettor and engine, *See* Miscellaneous.

combustion means, *See* Ignition systems.

Cycles and systems of working (including types of engines). 130136, 132003, 132610, 132612, 132915, 133492, 133978, 134512.

cylinder head for, *See* Cylinders, etc.

Cylinders and combustion chambers. 130164, 130613, 132915, 133800, 134051, 134392.

Driving gear. 131728.

electric circuit for igniting of, *See* Ignition systems.

electric circuit for starting of, *See* Starting, etc.

Exhaust silencers. 130347, 130620, 130694, 133706.

free piston machines, *See* Cycles and systems, etc.

fuel control means associated with a vapour admitting lime, *See* Miscellaneous.

fuel filter, *See* Miscellaneous.

fuel injection, *See* Pumps.

Igniting systems. 129934, 131019, 131140, 131264, 131582 132158, 132172, 132173, 132174, 132312, 132418, 132610, 132611, 132764, 133065, 133174, 133579 ,133667, 133763, 134621, 134690.

Ignition, circuits for, *See* Igniting systems.

Miscellaneous. 129859, 130058, 130091, 130354, 130966, 131156, 131582, 132518, 132546, 133203, 133262, 133439, 133685, 134512, 134584, 134621.

Pumps 129923, 130014, 130624, 131111, 131533, 132426, 132427, 132505, 132734, 133070, 133197, 133535, 134078, 134286, 134512, 134584, 134721, 134980, 135000, 135126.

Spray carburettors. 133878, 133988.

Starting, stopping and reversing. 130091, 131019, 131868, 133261, 133818, 134569, 134992.

Valves and valve gear. 132460, 133026, 133203, 133492.

Vapourisers and heaters. No case.

Iron and steel extracting from ores, *See* IRON & STEEL, ETC.

IRON AND STEEL MANUFACTURE. XXXIII(5).

cast-iron producing, *See* Steel making etc. (Misc.)

Converters, metallurgical. 131530, 132193, 133133.

Extracting from ores—

Direct processes. 131607, 131637, 133499.

Smelting processes—

Blast furnace processes. 130380, 131859, 133202.

Other than blast furnace processes. 130380, 132275, 133828.

slag forming agent for steel making, *See* Steel making, etc.—(Miscellaneous),

Steel making and purifying—

Bessemer processes. 131518, 131530, 131612, 132275.

Electric processes. No case.

Miscellaneous. 129818, 130007, 130447, 130449, 131327, 131612, 131687, 131688, 131689, 131954, 132504 133057, 133689, 134523,

Open hearth and reverberatory furnace processes. No case.

Recarburising and other finishing processes. 131687, 131688, 131689, 134824.

Isobutyraldehyde, preparation of, *See* CARBON COMPOUNDS, ETC.

Isoindoline derivatives, *See* CARBON COMPOUNDS, ETC

Isoprene, *See* CARBON COMPOUNDS, ETC.

Isopropylidineaminoethanol salt of p-nitrobenzene—sulfonyl urea, *See* CARBON COMPOUNDS, ETC.

J

JEWELLERY. LXVI (5).

130273, 132785.

Joint for a toggle section in vapour generators, *See* MECHANISMS, ETC.

K

Kerosene and diesel fuels, refining of, *See* FUEL, ETC.

Kneading and rolling flour and dough, *See* COOKING ETC.

KNITTING AND RBRIDING. XXI (2).

131415, 131742, 132016, 132369, 132492, 132540, 132541, 133610, 134267, 134344, 134513, 134539, 134540, 134541, 134542, 134567, 134989, 135020.

L

LABELS, COINS, TOKENS AND TICKETS. XLII (5).

134214, 134653.

Lactams, *See* CARBON COMPOUNDS, ETC.

Lactams, purification of, *See* CARBON COMPOUNDS, ETC.

Ladles and like apparatus for molten metal, *See* METAL EXTRACTING.

Ladles for molten materials, *See* METALS EXTRACTING ETC.

Laminer articles packing, *See* PACKING, ETC.

LAMP—CHIMNEYS, GLOBES, LENSES, SHADES, REFLECTORS, AND HOLDERS THEREFOR. XXX(3).

anti dazzle device for road vehicles, *See* Obturators, etc.

Chimneys, globes like illuminant enclosure. No case.

Galleries, holders and mountings for chimneys, globes, shades and reflectors, No case.

Lenses, prisms and equivalent lantern fronts and holders therefor. No case.

Miscellaneous. No case.

Obturators, screen and like shutters for obscuring light. 130705, 130706, 133037, 133360.

Reflectors and reflecting surfaces. 133360, 133717.

Shades. No case.

LAMPS FOR LIGHTING AND HEATING (EXCEPTING BURNERS AND BURNER FITTINGS, LAMPS, CHIMNEYS, GLOBES, AND ELECTRIC LAMPS). XXX(4).

Acetylene and like lamps without lanterns. No case.

Igniters and lighters for burners, cigars and like. 132696, 132705.

Lamps for vehicles, *See* Vehicles, etc.

Miscellaneous. No case.

Portable lamps other than vehicle, signal and like. 132380, 134399.

Search lights, beacon lights buoy and like lamps. No case.

Street, shop front, ceiling, wall and like fixed lamps. No case.

Supporting and directing. No case.

Systems of lighting. No case.

Vehicle, signal and like lamps. 129976, 130183, 130751, 131263, 131345, 131523, 132090, 133764, 134053, 134998.

Lamps for road vehicles, *See* LAMPS FOR LIGHTING, ETC.

Latches for doors, *See* FASTENINGS, ETC.

Lead acid batteries, *See* BATTERIES, ETC.

Lead or silver recovery thereof, *See* METALS, EXTRACTING ETC.

LEATHER. XXIV (3).

(*Operations and apparatus of interest apart from making leather are indexed under such headings as* DYEING : DISINFECTING.)

Currying, impregnating and other finishing processes. 131967.

Detaining and recovering tanning materials from waste. No case.

Leathers, fancy and leather substitutes, produced by tanning processes. No case.

Miscellaneous. 130145, 132104, 133921.

extracts, vegetable, for tanning making : *See* Miscellaneous.

ornamenting ; *See* Miscellaneous.

Processes, preliminary to tanning (including apparatus for such processes). 131109, 131422, 133823.

Tanning processes (including apparatus for such processes). 133644.

Letter sorting cabinet, *See* FILING PAPER, ETC.

Leucaruamine compounds, *See* CARBON COMPOUNDS, ETC.

LIFE SAVING APPLIANCES, MARINE AND FIRE. XXXIX. (5).

No case.

LIFTING, LOADING AND CONVEYING SOLIDS. XLIX.

(*Adaptation and arrangement of lifting, lowering and hauling apparatus for traction of vehicles or for handling ships and boats are indexed under headings denoting such special use. Only features of interest apart from particular use are indexed here.*)

Cable haulage and aerial ropeways. 131184, 133294. 134368, 135083.

Combination plants for mechanically handling and stacking materials. 130016, 130038, 130222, 130350, 130351, 131251, 131733, 134597.

conveying load by endless belt, apparatus for, *See* Endless, etc.

conveyor device, endless type, *See* Endless belt, etc.

conveyors, endless, *See* Endless belt, etc.

Endless belt, chain, bucket screw and rotary conveyors and elevators. 129828, 129830, 130023, 130175, 130186, 130191 130821, 130933, 131426, 131515, 131633, 131720, 131940, 132185, 132297, 132487, 132629, 132857, 133043, 133239, 133402, 133454, 133693, 134328, 134902, 135274.

Grabs, lifting dogs, skips, tip buckets, slings and like load engaging, releasing and depositing means. 129887, 130495, 131811, 133001, 133294, 134161.

Jacks. 133001.

Lifts and cages. 132487.

Miscellaneous. 129887, 130032, 130409, 130933, 130972, 131206, 131426, 131811, 132124, 132990, 133001, 133452, 133690, 134342, 134387, 134419, 134597, 134640, 134674, 135256.

roof lifting and swindling device for furnaces, *See* Miscellaneous.

Winches and cranes. 131065, 132276, 133239, 133294, 133517, 133604, 134351, 135083.

Light combustible materials burner, for *See* FURNACES ETC.

Lime and dolomite globules producing, *See* CHEM, COMPOUNDS, ETC.

Liquid fuel burners, *See* BURNERS, ETC.

Liquid fuel valves for an engine, *See* INTERNAL, ETC.

Lixiviating, *See* CHEMICAL PROCESSES, ETC.

Liquid detergent, *See* SOAPS, ETC.

Liquid filter elements *See* FILTERING, ETC.

Linear polyesters, preparation of, *See* CARBON COMPOUNDS ETC.

Lining composition for metalcasting moulds, *See* CASTING, ETC.

Lining for furnaces & kilns, *See* FURNACES, ETC.

LOCKS (KEY AND PERMUTATION), SAFES AND STRONG ROOMS. LXIV (5).

Key operated locks, other than padlocks, shackle and hasp-locks. 130522, 130573, 130990, 131472, 131473, 132262, 132902, 135284.

Miscellaneous. 130522, 130883, 131360, 131472, 134091, 134884.

Padlocks, shackle and hasp locks (key operated). No case.

Permutation locks. 131187.

Safes and strong rooms. No case.

LOCOMOTIVES AND TRACTION ENGINES, PORTABLE AND SEMI-PORTABLE ENGINES. XLV (2).

(*This heading includes only components and details of special interest in respect of locomotives and traction engines, etc. Features of interest apart from locomotives, etc., are indexed under headings denoting the parts affected.*)

Endless-track vehicles and tractors, general designs of. No case.

Locomotives, general design of—

Bunkers, tanks and tenders. No case.

Condensers, coolers, feed water heaters and superheaters, heat accumulators arrangement and disposition of. No case.

Cylinder, drain valves and cocks and gear arrangement of

exhaust reservoirs and valves. No case.

Driving gear, arrangement of. No case.

LOCOMOTIVES AND TRACTION. ETC.—*Contd.*

Frames, plate and bar. No case.

Miscellaneous. 132030, 133615.

Wheels, bogies and axles, arrangement and disposition of (including adjusting distribution of weight on axles). No case.

Traction engines, portable and semi-portable engines. 130032.

LOOMS. XXI (3)

cop reflacing attachment, *See* Weft, etc. (Weft doubling, etc).

Driving, reversing, stopping and starting. No case.

guiding arrangement for weft thread inserting elements in wave weaving looms, *See* Shuttleless, etc.

Miscellaneous. 130977, 131081, 132016, 132463, 133324, 134769.

Shedding mechanism. No case.

Shuttleless, pile fabric, swivel and like special looms. 130547.

Warp and fabric letting off, taking-up guiding and tensioning in. 132318, 135237.

Weft supplying, inserting, beating up, cutting, doubling and twisting in (other than for shuttleless and like special looms)—

Beat-up motions and change box motions. 133336.

Lays, lathes or stays. No case.

Miscellaneous. No case.

Pickers, shafts, straps, and connection and picking motions. 133437, 133663.

Shuttles (including guards therefor). No case.

Weft, cutting deflecting, slackening tensioning and undulating. No case.

Weft doubling and twisting and replenishing mechanism. 130112, 133418.

Lubricant compositions, *See* OILS AND LUBRICANTS.

LUBRICATING. LIV (2).

Cans and other portable containers for applying lubricants. No case.

Lubricators and lubricating bearing surfaces (other than lubricating passages, channels and reservoirs)—

Conveying lubricants by means other than force-feed, gravity feed, or mechanical means. No case.

Force-feed. 130102, 133358, 134845.

Gravity feed. No case.

Lubricant conveyed by mechanical means. No case.

Miscellaneous. 132340, 132792.

Passages, channels and reservoirs for guiding or containing lubricant in machinery in—

Bearings. 130365, 130717, 132915, 133358, 134237, 134238.

Connecting rods, cranks, crossheads, eccentrics and knuckle and like joints. No case.

Cylinders, pistons, piston rods and stuffing boxes. 134273. 134275.

Machinery and apparatus, unclassified. 133032, 133358, 134646.

textile spinning and twisting rings, lubricating device for, *See* Passages, etc. (Machinery, etc).

Lubricating oil base production by hydrocracking of hydrocarbon charge, *See* DISTILLING, ETC.

LUMINESCENT MATERIALS AND APPLICATIONS THEREOF. LXIII (2)

129870, 133341, 133367, 135205, 135207, 135209.

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Magnetic bodies, *See* DYNAMO-ELECTRIC, ETC.

Magnetic cores, *See* DYNAMO-ELECTRIC, ETC.

MAGNETIC, ELECTROSTATIC AND LIKE SEPARATORS. XXXIII(6).

129996, 130647, 131290, 131453, 131561, 133591.

Magnetic materials other than alloys, *See* DYNAMO-ELECTRIC, ETC.

Magnetic sound recording and reproducing apparatus, *See* PHONOGRAPHS, ETC.

Magnetic sound recording stripes applied to antibalation layer of film, *See* PHONOGRAPHY, ETC.

Magnetic tapes, phonographic, *See* PHONOGRAPHS, ETC.

Manually operated valve for arrosols *See* VALES, ETC.

MANURES AND FERTILIZERS. I(4).

130138, 130139, 130157, 130181, 130800, 130801, 131117, 133328, 133628, 133673, 133887, 135074, 135110.

Margin indicating device, *See* INDICATING.

Margin indicating electric alarm device *See* ELECTRIC SIGNALLING, ETC.

Mass transfer column-type apparatus, for heterogeneous chemical reactors, *See* CHEMICAL PROCESSES, ETC.

MATCHES. XXXII(4).

130437, 134616.

MEASURES OF CAPACITY AND DELIVERING MEASURED QUANTITIES. XLI (8).

Liquids, sampling. No case.

Measured quantities by volume, apparatus for separating from bulk and delivering—

(comprising only apparatus requiring external operation and adapted at each repeated and identical operation to measure and separate a predetermined volume and deliver it).

Granular, and like fluent solid materials, volume apparatus for delivering. 131460, 132990.

Miscellaneous. 131460, 133725.

Volume apparatus for liquids having *fixed* measuring chambers. 133321.

Volume apparatus for liquids having *moving* measuring chambers. No case.

Measures of capacity. 134618.

MEASURING AND TESTING ELECTRICALLY. LVIII(6).

Electric and magnetic tests and measurements (other than those for geophysical exploration and current, pressure and resistance measuring). 129990, 130248, 131094, 131110, 131210, 131313, 131314, 131315, 131316, 131558, 131844, 131954, 131970, 132183, 132353, 133363, 133592, 133890, 133925, 134112, 134265, 134717, 134879, 134906, 134981, 135146.

Geophysical exploration by electric and magnetic means. 131897, 132353, 133442, 134451, 134879.

Meters, electric (including galvanometers and other current voltage, and resistance measuring instruments). 130459, 130460, 130529, 130557, 131160, 131558, 132458, 133629, 133630, 133890, 134670, 134931, 135066.

Miscellaneous. 130201, 130366, 130458,130529, 130623, 132458, 133244, 133436, 133516, 133560, 133630, 133649, 133896, 134043, 134112, 134931.

monitoring movement of textile Material, electric device for, *See* Electric and magnetic, etc.

probe members specially adapted for electric testing devices, *See* Electric and magnetic, etc.

vector analyser, *See* Meters, etc. (Misc.)

Meat and fish extracting fat from, *See* FOOD, ETC.

Meat aroma, *See* FOOD, ETC.

MECHANISM, (MISCELLANEOUS) LXV (1)

(*This heading comprises only construction of such mechanisms as clutches, gearings, linkwork, etc. Adaptations and arrangements of these mechanisms for particular machines are indexed under headings for such machines.*)

belt drives, *See* Gearing belt, etc.

Clutches for conveying rotary motion. 130026, 130073, 130769, 131188, 131313, 131380, 131415, 131427, 131936, 132358, 133171, 134457, 134607, 134763, 135084, 135245, 135316.

Countershafts, crankshafts, and shafts and spindles. 129933, 131266, 131415, 131455, 133748.

Gearing belt, rope and chain. 130073, 131240, 131531, 131920, 132617, 132890, 133215, 135052.

Gearing for conveying or converting reciprocating and rotary motion (comprising arragnements only of two or more types of gearing through all of which motion is transmitted). 129889, 129897, 130568, 132606, 133674.

Gearing for stopping and starting machinery. 133655.

Gearing, toothed and friction. 132661, 134574.

Gearing, variable speed, differential and reversing. 129832, 130073, 130107, 130794, 131234, 131287, 134604, 134607, 134848, 135052, 135237, 135337.

Link work, cams, tappet and ratchet and like gearing· 130026, 130904, 134057.

Mechanism not otherwise provided for. 129819, 130026, 130313, 130326, 130520, 130643, 130721, 130794, 131266, 131374, 132124, 132337, 132573, 133215, 133338, 133417, 133514, 133539, 133674, 133680, 134007, 134057, 134177, 134185, 134410, 134478, 134553, 134622, 135087, 135216, 135256.

pneumatic friction clutch, *See* Clutches, etc.

shaft couplings, *See* Mechanism, etc.

variable speed drive, *See* Gearing, etc.

MEDICAL AND SURGICAL APPLIANCES. XIX (2).

Bandages, dressings, pads, plasters and adhesive bandages and catamenial appliances. 129856, 132711, 133642, 135060.

Deformity, fracture and like appliances, surgical and artificial limbs and trusses. 135003.

Dental operating appliances and instruments. 130701, 135295

Ear instruments and hearing appliances (including stethoscopes). 135189.

Electric and magnetic appliance. 130253, 133185, 133736, 134919, 134978.

Medicines, administering (including syringes, pumps and like appliances). 129833, 129965, 130438, 130556, 130882, 132261, 132287, 133842, 134362, 134578.

Miscellaneous. 129873, 129965, 130438, 130768, 130881, 130884, 130964, 130965, 131935, 132243, 132244, 133167, 133304, 133427, 133736, 133789, 133924, 133986, 134288, 134381, 134736, 134919, 134967, 135003, 135122, 135257.

Pessaries, surgical and suppositories and rectal appliances. 129873, 131329, 132152, 134381, 135122.

Respiratory appliances. 129833, 130461, 131789.

Stands trays and like supports. No case.

surgical electrodes for operations, *See* Surgical operating, etc.

Surgical operating appliances including optical instruments, surgical. 132243, 133821, 134288, 134785, 134977.

Medicament injector, *See* MEDICAL, ETC.

Melamine, *See* CARBON COMPOUNDS, ETC.

Metal articles, apparatus and processes specially designed for producing, *See* METAL WORKING.

Metal bars rolling, *See* METAL WORKING.

Metal carbides, *See* CHEMICAL COMPOUNDS, ETC.

Metal casting, *See* CASTING, ETC.

Metal cleaning, *See* METAL WORKING.

Metal compounds, *See* CHEMICAL COMPOUNDS, ETC.

Metal containing azodyes, preparation of, *See* CARBON COMPOUNDS, ETC.

Metal cylinder producing electrolytically, *See* ELECTROLYSIS, ETC.

Metal dithiocarbonate, *See* CARBON COMPOUNDS, ETC.

Metal oxide reducing, *See* METALS EXTRACTING, ETC.

Metal powder obtaining, *See* METALS, EXTRACTING.

Metal, rolling, *See* METAL WORKING.

Metal extracting from ores, *See* METALS EXTRACTING, ETC.

METAL WORKING XXXV.

barbed tapes, metallic, *See* Misc.

Bending. 130493, 130375, 130995, 132130, 132330 133129, 133246, 133695, 134558.

combination of metal working processes like slotting revetting and keying, *See* Miscellaneous. (130051).

Drawing. 130627, 130503, 131504, 131505, 131506.

Drilling. 130200, 130774, 131071, 131398, 131406, 134675.

Fluxes for metal working purposes. No case.

Forging. 130650, 131013, 131769, 133045, 133046, 133061, 134096.

Milling. 130693, 131037, 131221, 131851, 133773, 134675.

Miscellaneous. 130051, 130171, 130172, 130208, 130493, 130627, 130650, 130651, 130981, 130995, 130996, 131036, 131071, 131130, 131210, 131335, 131398, 131470, 131505, 131603, 131778, 131851, 131889, 131961, 132107, 132130, 132179, 132216, 132525, 132638, 133129, 133369, 133402, 133417, 133539, 133645, 133843, 134083, 134096, 134105, 134276, 134339, 134558, 134559, 134763, 134865, 135046, 135071.

piston rings, combination apparatus and process for making, *See* Miscellaneous.

Planing, shaping and slotting. 131071, 131889, 132179, 133773, 135116.

reinforcement bars, forming by rolling, *See* Rolling, etc.

Rivetting. 133465.

Rolling. 129939, 130102, 130329, 130493, 130581, 130692, 130809, 130875, 130894, 131210, 131535, 132137, 132792, 132834, 132835, 132836, 133061, 133192, 133722, 133948, 134085, 134096, 134452, 134722, 135270.

scarfing, *See* Miscellaneous.

Screwing and tapping. 130137, 130643, 131201, 131406, 133750, 135071.

Seaming. No case.

Shearing and punching. 129811, 130208, 130244, 130324, 130333, 130448, 130671, 131154, 131492, 132351, 132567, 133841, 133973, 134283.

Shearing and marking billets, *See* Shearing etc.

Soldering. 130873, 131166, 131434, 132186, 134108.

Stamping and embossing. No case.

Turning. 130169, 131201, 132388.

Welding. 129875, 129878, 129879, 130170, 130171, 130228, 130372, 131603, 131681, 131768, 131872, 132113, 132186, 132559, 133150, 133232, 133968, 134096.

Metallising or coating with metals, *See* TINNING, ETC.

Metals depositing on metals otherwise than by electrolysis, *See* TINNING.

METALS EXTRACTING AND REFINING (EXCEPTING IRON AND STEEL MANUFACTURE AND ORES, TREATING). XXXIII (7).

(*Process and apparatus for obtaining oxides, hydrates, oxyacids and salts from which metal is stated to be obtained by unspecified or by known methods ore indexed only under* CHEMICAL COMPOUNDS, *etc. Steps in processes for the treatment of Ores involving improvements in connection with drying, grinding, mixing roasting, shifting and washing are indexed under headings denoting such operations.*)

Amalgamating and extracting metals by mercury. No case.

crucibles and melting pots, *See* Miscellaneous.

Cyaniding. No case.

Distilling. 134955.

Dry processes of extraction, other than distilling and refining. 130202, 131584, 132145, 132146, 133733, 135150, 135179.

ladbs for molten metals, *See* Miscellneous. 130776, 132563.

Liquating. No case.

metals recovering from scrap, *See* refining, etc.

metal removing impurities therefrom , *See* Misc.

Miscellaneous. 130516, 130776, 130925, 131021, 131336, 131954, 132504, 132563, 132576, 132832, 133248, 133654, 133689, 134293, 134732, 134748, 135134, 135151, 135186, 135195, 135272.

recovering of zinc, *See* Miscellaneous.

Refining (including recovering tin and other metals from scrap but excluding processes which form part of extraction).

132576, 132605, 132939, 133912, 134190.

Thermo-aluminic and like mixtures and metals extracting processes. No case.

Wet processes (other than cyaniding and amalgamating). 131614, 131615, 131685, 132144, 132145, 132146, 133506. 133530, 134293, 134679, 135195, 135272.

Metals, recovering from scrap, *See* METALS EXTRACTING ETC.

Methanol, *See* CARBON COMPOUNDS, ETC.

Methanol, distillation of, *See* DISTILLING, ETC.

Methoxybenzamide, *See* CARBON COMPOUNDS, ETC.

6-Methylene tetracyclines, preparation of, *See* CARBON COMPOUNDS, ETC.

Mineral concentrator, *See* ORES, ETC.

Micro reactor, *See* CHEMICAL PROCESSES, ETC.

MINING, QUARRYING AND WELL SINKING. XXVIII(3)

Boreholes, wells, shafts and tunnels—

- Linings, tubings and the like. No case.
- Miscellaneous. 131538, 131831, 132500, 133447, 133562.
- Wells (other than linings). 131538, 132500.

Boring earth and rock—

- Cores, rods and tubes, extracting and the like. No case.
- Drills, other than rotary. 129957, 130239, 132252.
- Miscellaneous. 130877, 131911, 132387, 132763, 133447, 135201.
- Rotary drills. 130239, 130774, 132661, 132763, 134687.

hydraulic mining, *See* EXCAVATING.

Mines and quarries. 130321, 130533, 132114, 133631, 134451.

percussion drills, *See* Boring earth, etc.—(Drills other than rotary).

tunneling, *See* MINING, ETC.

Misting and/or fogging on glass composition for preventing.

See GLASS MANUFACTURE.

MIXING AND AGITATING MACHINES AND APPLIANCES XXXIV. (3).

(*Mixing and agitating apparatus of interest only as a part of apparatus for other purposes is indexed only under heading for such apparatus*).

This heading does not include CENTRIFUGAL MACHINES; INJECTORS; *Carburettors* (INTERNAL COMBUSTION ENGINES); SPRAY PRODUCERS; *and* VALVES).

Batch mixers (i.e. non-continuous discharge apparatus for solid and liquid materials)—

- Moving containers. No case.
- Stationery containers. 131091, 132471, 132636, 133235, 133922, 134880.

Continuous discharge apparatus—

Moving containers. No case.

Stationary containers. 130536, 130691, 133301, 134689.

gases, mixing, *See* CHEMICAL PROCESSES, ETC.

Miscellaneous. 130219, 132464, 132906, 134669, 134724, 134880.

Mixing fluids or solids with fluids in proportionate quantities. 130713, 130808, 134360, 134724.

vibrator *See* Miscellaneous.

Mixing blast furnace charge, device and method for, *See* MIXING AND, ETC.

Mixing fluids, automatic electric control system for, *See* ELECTRIC SIGNALLING, ETC.

Mixing gases, *See* CHEMICAL PROCESSES, ETC.

re-Modification of monoazo pigment, preparation of, *See* CARBON COMPUNDS, ETC.

Modified vinyl halide polymer composition *See* PLASTIC, ETC.

Monitoring and/or switching device for spinning machines, *See* SPINNING, ETC.

Monitoring movement of textile material, electric device for. *See* MEASURING AND TESTING, ETC.

Monoazo dyes, *See* CARBON COMPOUNDS, ETC.

Monoazo dyestuffs, *See* CARBON COMPOUNDS, ETC.

Monoazo dyestuffs, preparation of, *See* CARBON COMPOUNDS, ETC.

Motion picture film, *See* PHOTOGRAPHY, ETC.

MOTOR CONTROL SYSTEMS AND MOTOR AND LIKE CONTROLLERS, ELECTRIC. LIX (3).

control circuit for motors, *See* Motor, etc.

Motor controlling systems (other than construction of regulators).

129895, 130107, 130505, 130698, 131094, 131454, 132391, 132784, 132903, 133024, 133372, 133373, 134455, 134781, 134806, 135300.

Starters and regulators, construction of. 129934, 130107, 130505, 130554, 133283.

Motor fuel composition, *See* FUEL MANUFACTURE, ETC.

MOTOR VEHICLES. LII (1).

Arrangement and disposition of parts, not otherwise provided for 129959, 130847, 130883, 131112, 131246, 131569, 133065, 133405, 134554, 135052.

Driving transmission, balance and reversing gearing, arrangement and disposition of.130509, 132645, 133339, 134226, 134365, 134554, 135052, 135149.

Frames and under carriage work. 130277, 131569, 132030, 132349, 133849, 135149.

Steering and controlling. 132703, 133814.

MOTORS (MISCELLANEOUS.) LXV (2).

(This heading includes animal powder engines and miscellaneous types of motors such as self-driving machines; spring, weight and momentum power storing apparatus; and motors operated by variations in atmospheric temperature. Windmills and wind motors are indexed under TURBINES). 130815.

Moulding hollow ruber articles, *See* MOULDING, ETC.

MOULDING PLASTIC AND POWDERED SUBSTANCES XIII.

Casting with non-metallic liquids or flowing paste. 130770, 132070, 133532, 134699, 134832.

Centrifugal and rotary machines for moulding (including other machines and processes for making pipes and tubes). 133668

Compression moulding process, *See* Miscellaneous, etc.

Extrusion machines. 129827, 130361, 130608, 131192, 131209, 131475, 131787, 131800, 131934, 131996, 132119, 132371, 132522, 133253, 133805, 133848, 133877, 134077, 134184, 134538, 135010.

India rubber, processes and apparatus for moulding, not covered by other subdivisions. 131972, 131973, 134917.

Miscellaneous processes and apparatus. 129921, 129922, 130097, 130349, 131095, 131192, 131209, 131265, 131268, 131342, 131451, 131475, 131566, 131764, 131787, 131905, 132163, 132228, 132324, 132405, 132466, 132494, 132564, 132569, 132812, 132837, 133316, 133518, 133584, 133668, 133805, 133877, 134007 134208, 134388, 134589, 134673, 134858, 134926, 134948, 135010, 135044, 135045, 135163, 135246, 135276, 135316, 135342,

Moulds. 130084, 130349, 130500, 131265, 131546, 131821, 132074, 132494, 132812, 133749, 133805, 134388, 134673, 134917, 135342.

Phonograph records, processes and apparatus for not covered by other sub-divisions. No case.

Presses, mechanical 131265.

Pulp, process and apparatus for moulding not covered by other sub-divisions. No case.

Shaking, jigging and tamping machines. 131333, 134930.

Shaping by rollers. 133518, 133561, 134971.

Spreading by pressure against moving or fixed formers (plunger-operated). 133561, 134917.

Wheel tyres (process and apparatus for making not covered by other sub-divisions). 133668.

Moulds for casting metals, *See* CASTING METALS.

Moulds for metal casting, *See* CASTING METALS.

Moulds, foundary, *See* CASTING, ETC.

Mountings for bearings, *See* BEARINGS, ETC.

Multilayer water proof paper, *See* PAPER.

Muscle retractors, *See* MEDICALS, ETC.

MUSIC AND MUSICAL INSTRUMENTS. IX (2).

Miscellaneous musical instruments.

Music. No case.

Organs, harmoniums. No case.

Pianos. No case.

Stringed instruments (excepting pianos). 1311186.

Time indicators, musical. No case.

Wind instruments (excepting organs and like). No case.

N-Acylated-2-amino-benzophenone, preparation of *See* CARBON COMPOUNDS, ETC.

N-Acylated amino sulphonic acids, preparation of *See* CARBON COMPOUNDS, ETC.

N-substituted acetaldimines, preperation of, *See* CARBON COMPOUNDS, ETC.

NAILS, HOOKS, COTTERS, PINS, STAPLE WEDGES AND WOOD SCREWS. LXIV(6).

Cotters, gibs and pins for cottering. No case.

Hooks. No case.

Miscellaneous. No case.

Nailing, stapling and wire-stitching. No case.

Nails, spikes, tacks and woodscrews. No case.

Wedges. No case.

Nicatinoyl glycinate, *See* CARBON COMPOUNDS, ETC.

Nitric acid, *See* CHEMICAL COMPOUNDS, ETC.

Nitric acid, manufacture of, *See* CHEMICAL COMPOUNDS, ETC.

1-Nitroantheraquinone, production of, *See* CARBON COMPOUNDS, ETC.

Nitroanthraquinones, *See* CARBON COMPOUNDS, ETC.

NON-METALLIC ELEMENTS IV (2).

Carbon, charcoal and graphite. 130096, 130442, 130518, 130831, 131020, 131404, 131431, 131855, 132613, 132804, 133064, 134546, 134840.

Elements other than carbon, halogens, hydrogen, nitrogen, oxygen and sulphur. No case.

graphite, *See* Carbon, charcoal, etc.

Halogens. 130125, 134156.

Hydrogen. 132005, 133124.

Nitrogen. 133124.

Oxygen and ozone. No case.

Sulphur. 131282, 131808, 131809, 133300, 134672.

Nonwovens, impregnating with binder, *See* PROOFING, ETC.

Nonwovens, treating with optical brighteners, *See* DYEING, ETC.

Nozzles for spray producers, *See* SPRAY PRODUCERS, ETC.

Nozzles for tapping metal from ladles, *See* METALS EXTRACTING, ETC.

Nozzles for tapping steel for laddles, *See* IRON & STEEL, ETC.

O

OILS AND LUBRICANTS. XI (2).

(*Steps in processes for the production of oils involving improvements in connection with cooling, distilling, filtering, heating and mixing are indexed under headings denoting such operations.*)

chilling oil, *See* Oils, etc. (Purifying, etc)

dewaxing of lubrication oil stock. *See* Oils, etc. (Purifying).

Lubricants—

Lubricants for fibres and unclassified. 133278, 135212.

Lubricants for machinery. 130142, 130418, 130802, 131539, 131873, 132247, 132284, 132296, 133278, 133612.

Oils (excepting fats and fatty oils and oils for fuel and motive power purposes and lubricants)—

Compositions and modified oils (other than for lubricating). 132302.

Extracting. 130396, 135091.

Purifying. 130178, 130713, 130773, 131560, 132810, 132926, 134515, 135091.

solvent refining of lubrication oil stock, *See* Oils, etc. (Purifying).

Olefin oxides, *See* CARBON COMPOUNDS, ETC.

Olefins, polymerization of, *See* CARBON COMPOUNDS, ETC.

Olefins, preparation of, *See* CARBON COMPOUNDS, ETC.

Open end spinning, *See* SPINNING, ETC.

Optical viewing device, *See* PHILOSOPHICAL, ETC.

Orange juice extracting, *See* COOKING, ETC.

Ores, concentration prior to extraction, *See* ORES, ETC.

Ores, extracting metals from, *See* METALS, EXTRACTING.

Ores reducing prior to extraction, *See* ORES, ETC.

ORES, SLIMES AND MINERALS RESIDUES, TREATING (BRIQUETTING, CHLORINATING, ROASTING AND LIKE PROCESSES). XXXIII (8).

(*This heading is not exhaustive of all processes of treating ores, but is limited to processes as defined by the terms of the sub-headings.*)

Briquetting and other agglomerating processes. 132841, 132858, 133928, 134377, 135111, 135112, 135113.

Chlorinating, chloridising and like processes. 130083, 130561, 133123, 134377.

Deoxidising, dephosphorising processes for removing undesired constituents from ores, prior to extraction. 131344, 131607, 131995, 132559, 132867, 133066, 135344.

Miscellaneous. 130945, 131308, 131515, 132559, 132576, 132840, 132929, 133155, 133156, 133326, 133853, 134393, 135106, 135107, 135134.

Open-pan roasting and sintering processes and apparatus. 132840, 135179.

Sulphatising, sulphidising processes. No case.

Ores, treating prior to extraction, *See* ORES, ETC.

Ores, treating to extract metal, *See* METAL EXTRACTING, ETC.

Organic per-oxy compounds, decomposition of, *See* CARBON COMPOUNDS, ETC.

ORNAMENTING. LXVI (6).

131587, 132444, 132837, 133404, 133463, 133591.

Oxidation catalyst, *See* CHEMICAL PROCESSES, ETC.

Oxidation of molten metal, preventing during casting, *See* CASTING METALS.

Oxirane compounds, *See* CARBON COMPOUNDS, ETC.

4. oxo capronitrile, preparation of, *See* CARBON COMPOUNDS, ETC.

P

P-aminodimethylaniline, preparation of, *See* CARBON COMPOUNDS, ETC.

P-aminodimethylaniline, preparation of, *See* ELECTROLYSIS, ETC.

Packing and baling, *See* PACKING, ETC.

PACKING AND BALING. XL(5).

- Bailing presses. 135004.
- Bales. No case.
- Bale-ties, bale-tie fasteners and strainers (wire, cord, strap and rod type). 130029.
- cigarette packing machines, *See* Packing, etc.—(Article packing, etc.)
- Packing and wrapping up for transit and storage—
  - Articles packeting singly or collectively in formed receptacles (including preliminary assembly and arrangement). 129850, 130033, 130191, 132796, 132901, 133756, 134499, 135062.
  - Granular, plastic and powdered materials, packeting in formed receptacles. 129850, 131987, 134211, 134484, 134920, 134947.
  - Materials and goods making up into special packages and parcels. 132842, 133756.
  - Miscellaneous. 131965, 133424, 133532, 133589, 134211, 134606, 135333.
  - Packeting by wrapping up in bags, sheets and blanks. 130145, 130827, 131363, 131773, 132529, 132842, 133424, 134203, 134499, 135333.
  - Parcelling by bundling, machines and apparatus for. 133758, 133759.
  - Unpacking. No case.

PAINTS, PAINTING AND THE LIKE. XII(3).

(*The heading does not include BITUMINOUS EMULSIONS, PLASTIC COMPOSITIONS: polishing compositions for furniture* (*See SOAPS, ETC.*) *and enamels and glazes* (*See GLASS MANUFACTURE*).

- Coating and painting surface (other than those of continuos lengths of flexible materials in open condition). 130310, 130322, 130887, 130895, 131046, 132608, 132822, 133371, 133972, 134891.
- Coating compositions, non-drying and non-setting and compositions applied melted. 134471, 135206.
- Luminous paints and compositions. 130928, 133538, 133550, 134424.
- Paints and varnishes, removing. No case.
- Paints, varnishes and other coating compositions, drying by exposure other than luminous paints—
  - Distempers and water paints. No case.
  - Miscellaneous. 129958, 130439, 132247.
  - Paints containing carbohydrates, cellulose, and Indian rubber and like gums. 131257.
  - Paints containing oils, fats, soaps and resins (natural and synthetic) and waxes. 130045, 130174, 130439, 131391, 133228, 133678, 134570, 134702.
  - Paints (other than distempers) containing asphalts, bitumens, tars and pitches. No case.
  - Pigments. 129926, 130439, 130864, 131486, 132748, 133443, 133498, 133538, 133550, 134324, 134425, 134676, 135185.

Pallets for trucks, *See* ROAD VEHICLES.

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- Materials, fibrous. No case.
- Miscellaneous. 129926, 131363, 131456, 131953, 131985, 132227, 133614, 134056, 134168, 135068.
- Paper, boards and compound paper. 129994, 131363, 131409, 131449, 133614, 133949, 134168, 134398.
- Paper-machines and paper-forming apparatus. 130692, 131535, 134158, 134221.
- Pulp, preparation of—
  - Apparatus (including pulping engines). 131720, 131980, 134468.
  - Processes using alkali. 131513, 132226, 133426, 133913, 134688, 134780.
  - Processes using substance other than alkalis. 131980, 132175, 133426, 134688, 134780.
- Waste products, treatment and utilisation of. 131126, 131513, 132614, 133302, 135219.

Partially halogenated polyimine of aluminium, preparation of, *See* CARBON COMPOUNDS, ETC.

Passenger conveyor landing, *See* LIFTING, ETC.

Pellets of actuated carbon, *See* NON-METALLIC, ETC.

Pencils, *See* WRITING, ETC.

Pens, *See* WRITING, ETC.

Percussion drills, *See* MINING, ETC.

Pesticidal compositions, *See* DISINFECTING, ETC.

Pesticidal formulation, *See* DISINFECTING, ETC.

Petrolium fractions refining, *See* OILS, ETC.

Phenanthrotriazolyl derivatives, *See* CARBON COMPOUNDS, ETC.

Phenol derivatives, *See* CARBON COMPOUNDS, ETC.

1-Phenyl-4-N-acotoacetamino-5-halopyridazone (6), *See* CARBON COMPOUNDS, ETC.

Phenyloxy derivatives, *See* CARBON COMPOUNDS, ETC.

PHILOSOPHICAL INSTRUMENTS. XXXVIII(2).

(*This heading includes surveying, navigational, astronomical instruments, and thermometers, meteorological and mathematical instruments and miscellaneous physical apparatus*).

- apparatus for use in optical alignment of shafts of machinery units, *See* Miscellaneous, etc.
- Angles, measuring levels, plumb rules and like. 131272, 131273, 134089, 134768.
- cryometers, *See* Thermometers, etc.
- Mathematical drawing appliances. 131325, 132373.
- Miscellaneous philosophical instruments. 129990, 130133, 131357, 131669, 131718, 133044, 133279, 133319, 133904, 134420, 134594, 134936, 135115.
- Optical apparatus—
  - Miscellaneous. 129990, 131516, 131587, 131042, 132245, 132824, 132886, 133210, 134608.
  - Projection apparatus, optical. 131792, 134052, 134406, 135317.
  - Systems or combinations of refracting and reflecting elements. 130237, 130294, 131516, 131587, 133210, 133279, 134608.
- Thermometers and pyrometers. 130024, 131791, 132233, 132234, 134897, 134970.
- Viewing devices, optical, *See* Optical apparatus—(Misc.) (132886).

PHONOGRAPHS AND LIKE SOUND RECORDING AND REPRODUCING INSTRUMENTS. LX(3).

(*This heading does not include sound measuring and locating*)

Cases and stands. 133223.

Driving, speed regulating and indicating, starting and stopping. 133222, 133359, 134149.

Electric and magnetic machines, general design of. 130221, 131148, 131669, 132162, 132331, 132824, 134291, 134406, 134856, 134857, 135039.

Mandrels and turntables. No case.

Miscellaneous. 133222, 134149, 134606, 135039.

Multiple machines, mechanical, general design of. 132824.

Optical systems of recording. No case.

magnetic recording and reproducing apparatus, *See* Electric etc.

pick ups, electrical, *See* Electric and magnetic, etc.

Records, mechanical. 132824.

Sound boxes. 133464.

Sound magnifying, modifying and directing appliances. No case.

Tone-arms. No case.

Working in association with cinematographs and musical instruments. 134291, 134406.

(Includes only systems or combinations of apparatus. Specified types of apparatus are indexed under various headings for such apparatus).

Phosphoric acid, *See* CHEMICAL COMPOUNDS, ETC.

Phosphorylated 1, 2, 4-oxadiazoles, *See* CARBON COMPOUNDS, ETC.

Photoemulsion, *See* PHOTOGRAPHY.

Photographic bleach fixing composition, *See* PHOTOGRAPHY.

Photographic emulsions, preparation of, *See* PHOTOGRAPHY.

Photographic silver halide emulsion, preparation of, *See* PHOTOGRAPHY.

PHOTOGRAPHY. XXXVIII(3).

Automatic and coinfreed apparatus for taking and finishing photographs. No case.

Cameras (including shutters). 130839, 130840, 133885.

Cinematograph picture films and lantern slides. 134291.

Colour photography. 132578, 133551.

Dark rooms, studios and studio accessories. No case.

Developing and other chemical treatment (other than apparatus). 130393, 130463, 131258, 132910, 133160, 134176, 134332.

Enlarging, copying and reducing. 134126.

electrophotographic printing process, *See.* Miscellaneous.

electrostatic copying apparatus, *See* Miscellaneous.

electrostatic image reproducing apparatus and method,

Miscellaneous. 130134, 130393, 131595, 131774, 131907, 132462, 134176, 134332, 134548, 135015.

Photographic type composing. No case.

Photo-mechanical printing surfaces producing. No case.

Plates and films, auxiliary holders for (separate from camera). 130839, 130840, 132462, 132520, 133954.

Plates, films and papers 130159, 130160, 130636, 130685, 130839, 131060, 132034, 132128, 132429, 132681, 132754, 132910, 133164, 133551, 134329, 134330, 134333, 134334, 134716.

Printing, apparatus for. 132578.

Surveying, aeronautical, panoramic photography. No case.

Trays, dishes and apparatus for developing, fixing, washing etc. 132621, 134176.

X-ray photography, *See* Miscellaneous.

Phthalimides, *See* CARBON COMPOUNDS, ETC.

Pickling inhibitors for Steel, *See* INCRUSTATION, ETC.

Pick ups for television signals, *See* TELEGRAPHS, ETC.

Pick ups for vidio signals, *See* ELECTRIC SIGNALLING, ETC.

Pick ups sound, *See* PHONOGRAPHS, ETC.

Piecing-up yarn, *See* SPINNING, ETC.

Pig iron manufacture, *See* IRON & STEEL, ETC.

Pigment composition containing resin, *See* PAINTS, ETC.

Pigments, *See* PAINTS, ETC.

PILES AND PILE DRIVING. XXVIII(4).

Concrete piles, other than piles made by driving preparatory piles or shells. No case.

Driving and withdrawing. No case.

Hoops, caps, saddles, shoes and screwpoints. No case.

Miscellaneous. 133293, 134557.

Piles made by driving preparatory piles or shells. No case.

Sheet and other metal pilling. No case.

Pin and socket tool for removing, *See* ELECTRIC COUPLINGS, ETC.

Pipe couplings, *See* PIPE-JOINTS, ETC.

PIPE JOINTS AND LIKE COUPLINGS. XLVIII(1).

(*This heading does not include wire and rod couplings for which see ELECTRIC COUPLINGS*).

Angle pieces, bends, crosses, elbows, tees and like junction pieces. No case.

Ball and swivel joints. No case.

Couplings, hose and disconnectible. 130854, 132481, 132921, 134194.

Fomred by molten metal and by welding. 133000.

fluid seal joints, *See* Miscellaneous.

Joints, other than easily removable, packed or welded. 130843, 134494, 134896.

joint making packing. *See* STEAM ENGINES.

Joints, packed and caulked. 130345, 130354, 131500, 131510, 131649, 131650, 132640.

Miscellaneous. 133000.

Plates, walls and other plane surfaces, joining tubes to. 131252.

spigot and socket joints with packing, *See* Joints, packed, etc.

spigot and socket, joints without packing, *See* Joints, other than, etc.

wire and rod couplings, *See* ELECTRIC COUPLINGS.

Piperidinol derivatives, *See* CARBON COMPOUNDS, ETC.

PIPES AND TUBES. XLVIII (2).

Cement and like pipes and tubes. 130361.

Cleaning. 129859, 131861, 132532.

flexible tube forming, *See* Hoses, etc.

Hoses and other flexible pipes (including non-flexible, India rubber, gutta percha and leather pipes). 129931, 130119, 130974, 131180, 131448, 131522, 131762, 131763, 131826, 132313, 132405, 133225, 133227, 133234, 133534, 133668, 135276.

Metal pipes and tubes. 130918, 131889, 132113.

Miscellaneous. 130354, 132313, 132564.

Paper tube forming *See* Pipes and tubes, etc.

Pipes and tubes, not otherwise provided for. 132963, 133234.
Repairing, stopping leakages in and supporting pipes. 133934.

Piston engines for internal combustion means, *See* INTERNAL COMBUSTION, ETC.

Piston rings, combination apparatus and process for making, *See* METAL WORKING.

Pistons for internal combustion engines, *See* STEAM ENGINES, ETC.

Plant growth-regulating composition, *See* DISINFECTING ETC.

PLASTIC COMPOSITIONS. XII(2).

(*This heading comprises mouldable compositions which usually set, compositions containing bitumen, resins, fats, oils and waxes and organic derivatives as important constituents are indexed here. India rubber compositions are indexed under* INDIA RUBBER. *Steps in processes for the production of plastic compositions involving improvements in connection with drying, emulsifying, grinding, crushing and pulverising, mixing, and testing physical qualities are indexed under headings denoting such operations.*)

Albumen, casein cellulose, dextrine, gelatine, glue, molasses, starch and sugar compositions, but not containing constituents stated (below). No case.

Bituminous compositions. 133769, 133919.

Compositions containing clay, cement, porcelain and like, but not containing constituents stated above. 132237, 134476.

Oils, fats, higher fatty acids, soaps and condensates from tar distillation compositions containing, but not bitumen, or resins, gums and waxes. No case.

Resins, resinates, gums and waxes containing but not bitumen. 129919, 129994, 130260, 130376, 130488, 130824, 130902, 130903, 131084, 131143, 131139, 131338, 131433, 131610, 131611, 131927, 131921, 132043, 132177, 132459, 132628, 132812, 133003, 133225, 133269, 133425, 133633, 134016, 134703, 134816, 135085, 135218.

Unclassified compositions. 130174, 130260.

Plastic materials, moulding, *See* MOULDING, ETC.

Plastic substances, moulding, *See* MOULDING, ETC.

Plating metals otherwise than by electrolysis, *See* TINNING, ETC.

Plug and socket type electric couplings, *See* ELECTRIC COUPLINGS, ETC.

Pneumatic separators, *See* SIFTING, ETC.

Pneumatic tyre, *See* WHEELS, ETC.

Pneumatic tyre and wheel assembly, *See* WHEELS, ETC.

Polarisation diversity receiver system, wireless, *See* WIRELESS, ETC.

Polish for furniture, *See* PAINTS, ETC.

POLISHING, SHARPENING AND ABRADING (OTHER THAN COMPOSITIONS). XLIII(3).

(*This heading does not include polishing of grains and seeds* (*See* GRAINS, ETC.); *cleaning and polishing knives, forks after use* (*See* WASHING BUILDINGS, ETC.); *milling and filing metals* (*See* METAL WORKING); *cutting and working stone* (*See* STONE CUTTING, ETC.); *polishing compositions for furniture and boots* (SOAPS, ETC.). 130172, 130830, 131131, 131165, 131304, 131696, 131708, 131756, 132076, 132436, 133010, 133132, 133955, 134475, 134597, 134825, 134865, 135086.

Polyester fibres, *See* CELLULOSE, ETC.

Polyglycol ether compounds, *See* CARBON COMPOUNDS, ETC.

Polymer containing hydantoin preparation of, *See* CARBON COMPOUNDS, ETC.

Polymer sheets, *See* INDIA RUBBER, ETC.

Polymeric foam, *See* INDIA RUBBER, ETC.

Polymeric material, organic drying, *See* CARBON COMPOUNDS, ETC.

Polymerisation, *See* CARBON COMPOUNDS, ETC.

Polymerisation and copolymerisation of alpha-olefins, *See* CARBON COMPOUNDS, ETC.

Polymerisation catalysts, preparation, *See* CHEMICAL PROCESSES, ETC.

Polymerisation hydrocarbon, *See* CARBON COMPOUNDS, ETC.

Polymerisation acrylonitrils, *See* CARBON COMPOUNDS, ETC.

Polymerisation of butadiene and/or isoprene optionally with styrene rising litham based initiator, *See* CARBON COMPOUNDS, ETC.

Polymerisation of vinyl monomers, *See* CARBON COMPOUNDS, ETC.

Polymerisation reactor, *See* CHEMICAL PROCESSES, ETC.

Polymers, *See* CARBON COMPOUNDS, ETC.

Polymers preparation of, *See* CARBON COMPOUNDS, ETC.

Polyolefins, *See* CARBON COMPOUNDS, ETC.

Polysarccharides, preparation of, *See* CARBON COMPOUNDS, ETC.

Polymrethane, preparation of, *See* CARBON COMPOUNDS ETC.

Polyvinyl chloride, *See* CARBON COMPOUNDS, ETC.

Polyvinyl chloride articles (sheets and plates,) production of, *See* CELLULOSE, ETC.

Positive electrodes, *See* BATTERIES, ETC.

Potassium dihydrozen phosphate, *See* CHEMICAL COMPOUNDS, ETC.

Powder, medicament dispensing device, *See* MEDICAL, ETC.

Power, mechanical transmission of, *See* MECHANISM, ETC.

Power transmission pulley, *See* MECHANISM, ETC.

Preheating and calcining furnace for cement manufacture, *See* FURNACES, ETC.

Preheating of limestone, *See* CHEMICAL COMPOUNDS, ETC.

Preparation of esters, *See* CARBON COMPOUNDS, ETC.

Preparation of high quality synthetic cryolite, *See* CHEMICAL COMPOUNDS, ETC.

Press for printing, *See* PRINTING.

Pressure sensitive switches, electric, *See* ELECTRIC SWITCHES, ETC.

Pressure sensitive tape applying to surfaces, *See* LABELS, ETC.

Pressurized product dispensing valve, *See* SPRAY, ETC.

Prime mover, *See* MECHANISM, ETC.

Printed circuit, current control apparatus for, *See* CONDUCTORS, ETC.

PRINTING. XXXVII(1).

(Excepting PHOTOGRAPHY, TYPEWRITERS.)

Configuration of types, faces, quads, spaces and printing and embossing surfaces. 130578, 131665, 132894, 133005, 133260, 133441, 134295, 134549, 134653, 135145, 135170.

duplicating machines, *See* Stencil, transfers, etc.

Embossed printing. No case.

Etching and engraving. 133404.

Miscellaneous. 130100, 131353, 131537 131754, 131761, 132694, 132934, 134147, 134963, 135138, 135322.

Post-marking and franking machines. No case.

Presses (including processes thereof) for printing. 131537, 131669, 131754, 131869, 132002, 132932, 132933, 134222.

Stencils, transfers and copying. 130168, 131143, 131669, 131921, 132595, 132702, 132751, 134054, 135138.

Textile printing. 129964, 130168, 130211, 130308, 130489, 130564, 130872, 131171, 131220, 131644, 131857, 131939, 131967, 132002, 132341, 132595, 132646, 132662, 133145, 133708, 133935, 133952, 134268, 134508, 134963, 135335.

Type making, setting and composing. 131011, 135263.

Printing of moulded textile articles, *See* PRINTING ETC.

Probe members specially adapted for electric testing devices. *See* MEASURING AND TESTING, ETC.

Production of Benzen *See* CARBON COMPOUNDS. ETC.

Production of hydrogen, *See* NON-METALLIC, ETC.

Profile maker, *See* GAUGES, ETC.

PROOFING FABRICS AND PERMEABLE MATERIALS. XXIII.

Coating yarns, threads and webs with liquid and plastic materials, apparatus for and processes dependant on such apparatus. 130370, 130740, 131508, 132421, 132529, 132711, 133580, 133707, 134168.

Fabrics, coated with liquid and plastic materials. 130994, 131379, 131508, 132268, 132421, 134858, 134864.

Fabrics composed of threads or fibrous materials united by adhesives. 130514, 131646, 131684, 132267, 132683, 134010, 135001, 135160.

Fabrics, compound and compound sheet materials. 129994, 130993, 131237, 131433, 131684, 131744, 131869, 132246, 132683, 132745, 132821, 133768, 133833, 134010, 134178, 134971.

Fabrics, miscellaneous. 130589, 131696, 132300.

Proofing permeable materials against air, bacteria, chemicals, fire, fungi, moisture and vermin (includes only impregnation and hot coating)—

Compositions and materials. 131610, 131749, 133707, 134988, 135223.

Processes. 130514, 131379, 133371, 134278, 134450, 134507, 134864, 134974, 135223.

wood treating with liquids and gases; *See* Proofing, etc.

PUMPS, RECIPROCATING, FOR LIQUIDS. XLVII(3).

(*This heading includes only constructional features of the pumps. Arrangements and adaptation of pumps in particular machines are indexed under headings denoting such machnines.*)

Propulsive composition, *See* EXPLOSIVES, ETC.

Propylene copolymers, *See* CARBON COMPOUNDS, ETC.

Prostaglandin compounds, *See* CARBON COMPOUNDS, ETC.

Protein containing foodstuffs, *See* FOOD, ETC. 131164, 131063, 131163, 131164.

Protein foods, preparation of, *See* FOOD, ETC.

Protiens, preparation of, *See* CARBON COMPOUNDS, ETC.

Puffing tobacco, *See* CIGARS, ETC.

Pulse code modulation systems, telegraphic, *See* TELEGRAPHS, ETC.

Pulse code modulation systems, wireless, *See* WIRELESS, ETC.

Pulverising, *See* GRINDING, ETC.

Actuating, mechanism for. 134892.

Buckets and plungers, constructional details of. 130946, 133863.

Framings and carriages for. 134413.

General design of pumps (other than constructional details of specific parts like actuating mechanism, plungers, and valves). 129965, 130752, 130946, 131295, 132338, 133863, 134892.

Miscellaneous. 132675, 133980, 134413.

cylinders; *See* General design.

Pipes, rising mains and delivery spouts. 133980, 134413.

Regulating and controlling delivery. No case.

Value and valve seats, arrangement of. 130946, 132982, 135045.

Purification of the condensation product of polyalkylene polyamines and cyanamides, *See* CARBON COMPOUNDS, ETC.

Purification of hydrogen from Co impurity, *See* CHEMICAL PROCESSES, ETC.

Purification of hydrogen gas, *See* NON-METALLIC, ETC.

Purifying or cleaning air and gases by moistening, washing or otherwise treating with liquids, *See* AIR AND GASES, ETC.

Push cocks *See* VALVES, ETC.

Pyrazine derivatives, *See* CARBON COMPOUNDS, ETC.

Pyridazones, *See* CARBON COMPOUNDS, ETC.

Pyridine, *See* CARBON COMPOUNDS, ETC.

Pyridine esters, *See* CARBON COMPOUNDS, ETC.

Pyridinone derivatives *See* CARBON COMPOUNDS, ETC.

Pyridylium derivatives, *See* CARBON COMPOUNDS, ETC.

Pyrimidones, *See* CARBON COMPOUNDS, ETC.

Pyroprocessing unit, *See* HEATING SYSTEMS, ETC.

Q

Quinoxaline derivatives, preparation of, *See* CARBON COMPOUNDS, ETC.

Quinoxaline-di-N-oxides *See* CARBON COMPOUNDS, ETC.

Quinoxaline derivatives, preparations of, *See* CARBON COMPOUNDS, ETC.

Quinozolone derivatives, preparation of, *See* CARBON COMPOUNDS, ETC.

R

Radar circuit systems, *See* WIRELESS, ETC.

Radiation sensitive silver halide emulsion layer, *See* PHOTOGRAPHY.

RAILWAY AND TRAMWAY PERMANENT WAY AND SYSTEMS. L.

- apparatus for testing permanent way, *See* Permanent way—(Miscellaneous).
- Crossings and points and switches for—
  - Crossings. No case.
  - Operating and controlling operation of points, switches and movable parts of crossings. 129847.
  - Points. No case.
  - Switches. No case.
- Derailers and car replacers. No case.
- Electric railways (including electric traction) and other systems of railways and tramways (elevated, rope, pneumatic, track propulsion and like.) 133458, 133615, 135250.
- feeding individual components of rail fastenings of railway tracks, *See* Miscellaneous.
- Permanent way—
  - Chair-keys or wedges. No case.
  - Chairs. No case.
  - Miscellaneous. 130456, 130582, 130648, 131874, 131875, 131876, 133452, 134453, 134806, 135265.
  - Rail Joints. No case.
  - Rails, construction of. No case.
  - Sleepers—
    - Composite and compound (including stone, glass and like and rail securing means special thereto). No case.
    - Metal. No case.
    - Rails, securing to sleepers (other than means special to composite and wood sleepers). 131275, 134545.
    - Wood. 134545.
- Stops fixed to permanent way. No case.
- Turnables and traversers. No case.

RAILWAY AND TRAMWAY VEHICLES, BODY DETAILS, BUFFERS AND COUPLINGS AND UNDERCARRIAGES OF. LII(2).

- Body details (including the general design of various type of bodies. 133159, 134048, 135243.
- Buffers, draw gear and means for lessening shock (other than construction of springs and cushions)—
  - Buffers, construction of 133512, 133854.
  - Combined buffer and draw gear. 133504, 133512, 133854.
  - Draw gear (other than combined buffer and draw gear). 132493, 133007.
- Couplings—
  - Automatic. 129905, 130364, 131476, 133698.
  - Non-automatic. 130697, 131476, 133714.
- Miscellaneous. 130592, 131339, 132058, 134049.
- Undercarriages and underframes, details of—
  - Axles. No case.
  - Frame construction. 131318, 132349, 132680.
  - Springs, arrangement of and mounting bodies on. 132030, 132349, 132680.
  - Wheels and axles, arrangement of. 131924, 133615,

RAILWAY SIGNALS AND COMMUNICATING APPARATUS. LI(3).

- block signalling systems, *See* Signalling system, etc.
- Controlling traffic on, staff, tablet and ticket systems for (including stopping trains independently of drivers). No case.
- Hand levers and hand gearing (other than interlocking.) No case.
- Indicating condition of bridges, tunnels, permanent way and clearance for sidings and crossings. No case.
  - Indicators and like cabin apparatus for indicating setting of signals. 131946.
- Interlocking apparatus and apparatus for controlling and locking signals. No case.
- Miscellaneous. 131944, 131946.
- Recording signals and indicating and recording movements and speeds on trains. 133857.
- reversers, signal, *See* Interlocking etc.
- Rods and wires for operating points and signalling apparatus and wire and rod compensators. No case.
- Signalling instruments. No case.
- Signalling systems (other than interlocking systems). No case.
- Signalling to and communicating between trains and on trains. No case.
- Stopping and starting trains independently of driver and of track apparatus for interaction with moving trains. No case.
- Track apparatus for interactions with moving trains. 130747, 133857, 133990, 133991.
- Visible and audible signals (including lamp signals). No case.

Raise boring machine, *See* MINING, ETC.

Razor blades, *See* CUTLERY.

Razor blades coating with metals, *See* TINNING, ETC.

Rear view mirrors for road vehicles, *See* ROAD VEHICLES.

Record sheet material, *See* TYPE WRITERS.

Recovering chemicals from waste liquors, *See* CHEMICAL PROCESSES, ETC.

Recovering pure maleic anhydride, *See* CARBON COMPOUNDS, ETC.

Recovery of acrylonitrile, *See* CARBON COMPOUNDS, ETC.

Recovery of ammonia and carbon dioxide, *See* CHEMICAL COMPOUNDS, ETC.

Recovery of SO_2 gas, *See* CHEMICAL COMPOUNDS, ETC.

Reducing gases, production of, *See* GAS MANUFACTURE, ETC.

Reducing ores, *See* ORES, ETC.

Reduction of ores, prior to extraction, *See* ORES, SLIMES, ETC.

Reduction roasting of nickel bearing ores, *See* METAL EXTRACTING, ETC.

Reduction treatment of red mud, *See* METALS, ETC.

Reflective element for mirrors, *See* PHILOSOPHICAL, ETC.

Refractory sleeve, *See* CEMENT, ETC.

Refrigeration apparatus, *See* COOLING, ETC.

Regenerating deactivated catalyst, *See* CHEMICAL PROCESSES, ETC.

Regulating voltage of electric supply systems, *See* ELECTRIC SUPPLY, ETC.

Reinforced resin bonded abrasive wheels, *See* POLISHING, ETC.

Reinforcement bars, *See* BUILDINGS, ETC.

Relays, electric contact making, *See* ELECTRIC SWITCHES, ETC.

Relays for protecting electric motors, *See* ELECTRIC SWITCHES, ETC.

Removing coloured impurities from phenol, *See* CARBON COMPOUNDS, ETC.

Removing dissolved products from precipitates, *See* CHEMICAL PROCESSES, ETC.

Removing excess coating on metal surface, *See* TINNING, ETC.

Removing sulphur, *See* NON-METALLIC, ETC.

Resilient plastic container, *See* HOLLOW WARE.

Resistor elements, *See* CAPACITANCES, ETC.

Rifamycin derivatives, *See* CARBON COMPOUNDS, ETC.

Rifles, *See* SMALL ARMS, ETC.

Rising butt hinge, *See* DOOR AND ETC.

ROAD VEHICLES. LII(3).

Body details of road vehicles comprising design of various types of bodies including motor vehicle bodies. 129921, 129922, 130409, 130426, 130837, 131247, 131701, 133158, 133453, 135243.

Draught, appliances for. 130743.

over-riders for road vehicles, *See* Body details, etc.

pallets for tracks, *See* Body details, etc.

Rail and road vehicles, details applicable generally to. 130237, 130617, 131643, 132030, 133065, 134129, 134305, 134503, 135243.

spare-wheel carrier mounting, *See* Body details, etc.

(*This heading includes such details as antidazzle screens, luggage racks, seats, wheel guards and wind screens and like*).

Undercarriages. 130277, 131924, 132349.

ROADS AND WAYS. XXVII (3). B.C.

Apparatus for making and repairing (including plants for making tar, macadam and cauldrons, asphalt, gravel-heating and like). No case.

Gratings (road surface and pavement), and manhole frames No. case.

Road, scavengering, tarring, watering and other surface treatment of roads and ways. 134360.

Roads and ways, construction of (other than apparatus for making and repairing). 130456, 131489, 132591, 133291, 133769, 134557, 135036.

Rods, metal, banding, *See* METAL WORKING.

Roller weighting arms, *See* SPINNING, ETC.

Rollers and cylinders, assembly, fluid heated of, *See* DRYING SYSTEMS, ETC.

Rolling metals, *See* METAL WORKING

ROPES AND CORDS. LXIV (7).

130750, 131036, 131641.

Rope way, *See* LIFTING, ETC.

Rotating kilns, *See* FURNACES, ETC.

ROTARY ENGINES, PUMPS, BLOWERS AND LIKE. XLIV (3).

Driving arrangements. 132675.

General design—

Fixed abutment type of apparatus. 134845.

Movable abutment type of apparatus. 132340, 133567, 133568, 134237, 134238, 134440, 135019, 135234.

Unclassified. 130278, 132003, 132166, 132594, 134852,

Governing and regulating including valve gear and valve-actuating mechanism. 133656, 134845.

Miscellaneous. 134599.

Working fluid supply. 133052.

Rowing type exercising device, *See* GAMES, ETC.

Rubber cyclised, *See* INDIA RUBBER, ETC.

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Safety lamp, *See* ELECTRIC LAMP, ETC.

Safety razors, *See* CUTLERY.

Salicylic acid, *See* CARBON COMPOUNDS, ETC.

Sampling coal and like materials, *See* SIFTING, ETC.

Scarfing, *See* METAL WORKING.

Scoring glass sheets, *See* GLASS, ETC.

Scoring sheet material *See* CUTTING, ETC.

Screen for grading solid particles, *See* SIFTING, ETC.

Screws, thread-forming, *See* BOLTS, ETC.

Scrubbing gas, *See* GAS MANUFACTURE, ETC.

Scrubbing, washing or otherwise treating gases with liquids, *See* GAS MANUFACTURE. (130011).

Sealing with Wax electrically, *See* BOOKS, ETC.

Seamless tubes, production of, *See* METAL WORKING.

Seat for vehicles, *See* FURNITURE,

Secondary batteries, electric, *See*. BATTERIES, ETC.

Seismic vibrator, *See* MINING, ETC.

Self-Locking nuts, *See* BOLTS, ETC.

Semiconductor devices, *See* WIRELESS, ETC.

Separation of an emulsion formed in micro-biological dewaxing of petroleum fraction *See* OILS, ETC.

Separation of n-paraffins from admixture with non-normal hydrocarbons, *See* DISTILLING, ETC.

Servo booster for vehicle brake system, *See* BRAKES, ETC.

Servo motor or boosters for brakes, *See* BRAKES, ETC.

Servo type brake, *See* BRAKE AND, ETC.

SEWAGE, TREATMENT OF. II (3).

(*Treatment applicable solely for obtaining particular products are indexed under headings for such products. This heading does not include* CLOSETS; FILTERING; *and* SIFTING).

- Bacteriological processes including aerating and oxidising processes and plants depending upon such processes. 130138, 130139.
- Gravity-separation apparatus. No case.
- Processes, and plant, miscellaneous. 130900, 132096, 132689, 133162, 134285, 134563, 135133.

SEWING AND EMBROIDERING. LXVI (7).

- Needles, bodkins, prickers, stilletos, needle threaders, thimbles and like cools and accessories. No case.
- Sewing and embroidary. 133981, 133982, 134090.
- Sewing machines. 130335, 130941, 131487, 133346, 134859, 135216, 135314.

Shaft couplings, *See* MECHANISM, ETC.

Shaft furnaces, *See* FURNACES, ETC.

Shaft sealing assembly for rotating member, *See* STUFFING, ETC.

Sheet metal for constructional work, *See* BUILDING, ETC.

SHIPS AND BOATS. LIII (2).

- armour and armore plating, *See* Design, etc.
- Design and structural details. 135201.
- drag anchors *see* Pontoons, etc.
- Hatch covers *see* Pontoons, etc.
- Pontoons, rafts and fittings and accessories, miscellaneous for. 130702, 133182.
- Propelling (including propellers screw and like). 132320, 134226.
- Rigging, sails and spars for. No case.
- Steering and manoeuvring (other than by propellers and propelling apparatus). No case.
- Stowing, handling and launching apparatus. No case.
- Towing. No case.

SIFTING AND SEPARATING. XXXIV (4).

- air separators, *See* Pnumatic separators.
- Fixed sieves. 132175.
- Hand sieves. 135329.
- Miscellaneous. 130647, 132683, 132945, 134165, 134662.
- Pneumatic separators. 131103, 132212, 132800, 132801.
- Reciprocating or oscillating sieves. 130113, 132800, 132801, 132802.
- Rotary sieves. 131818.
- Separating by rotary pitted cylinders and between rotary rollers. 131818, 134110.
- Sieves with compound motion. No case.

SIGNALS, MISCELLANEOUS. LI (4).

- Audible signals, signalling by. No case.
- Boards for displaying announcements for and variable information. 133914.
- Miscellaneous. 133291.
- Road traffic, signalling apparatus for. No case.
- Shipping and marine purposes, signalling apparatus for. No case.
- Signalling and advertising, monogramonic apparatus for (building up letters and signs by selective combination of elements). No case.
- Sounds, locating source and measuring intensity and velocity of. No case.
- Visible signals, signalling by. 133914, 135325.

Silica treatment of, *See* CHEMICAL COMPOUNDS, ETC.

Silver halide, *See* CHEMICAL COMPOUNDS, ETC.

Slub-catcher, *See* SPINNING, ETC.

Sludges, refining, separation by distillation and fractionation, *See* DISTILLING, ETC.

Slug, treatment of, *See* CEMENT, ETC.

Slugs molten, granulating, *See* GRANULATING, ETC.

SMALL ARMS AND MACHINE GUNS. XXXIX (6).

- Ordnace and machine guns, and carriages and mountings therefor. No case.
- Small arms (including gun-cases)—
  - Construction other than sights and sighting accessories. 129943, 130246, 130411, 130521, 130574, 130789, 131412, 131613, 131625, 131806, 131861.
  - Sights and sighting accessories. 130236.
- Weapons, other than small arms and warfare teaching. 132085.

Smoking compositions, *See*

Smoking mixture, *See* CIGARS, ETC.

Soaps, *See* SOAPS, ETC.

SOAPS AND CLEANSING, POLISHING AND ABRADING COMPOSITIONS (INCLUDING METAL POLISHES). XLIII (4) .

- Compositions containing materials other than metals, salts thereof and soaps. 130315, 130430, 131873, 132436, 132735, 132852, 132978, 133269, 133686, 134322, 135196.
- Containing metals, oxides and salt thereof. 130315, 130465, 130842, 132436, 132852, 132998, 133269, 133709, 134125, 134383, 134475, 134747.
- Polishing compositions for furniture, boots and other articles (including stains for wood). 131257, 131686, 134383.
- Soaps, and saponaceous compositions, containing fats and other saponifiable materials. 130841, 130940, 132548, 133749.

Sodium carbonate, *See* CHEMICAL COMPOUNDS, ETC.

Solar heaters, *See* HEATING SYSTEMS, ETC.

Solidification of carbonaceous fuels, *See* FUEL, ETC.

Solvent extraction of fats from fish or meat, *See* FATS, ETC.

Solvent refining of lubrication oil stock, *See* OILS, ETC.

Solvent refining of naphthenic lubricating oil, *See* CHEMICAL PROCESSES, ETC.

Soot, recovery of, *See* NON METALLIC, ETC.

Soyabean curds, preparation of, *See* FOOD, ETC.

Speckled dentifrice gel, *See* TOILET, ETC.

SPECTACLES AND EYEGLASSES. XXXVIII (4).

131268, 132414, 133488.

Spindle brake, *See* SPINNING, ETC.

Spinning and twisting frames, *See* SPINNING, ETC.

SPINNING AND TWISTING MACHINES FOR PRODUCTION OF YARNS AND THREADS. XX.

(*This heading does not include the formation of artificial filaments from viscous liquids which is indexed under* CELLULOSE, ETC.)

Bobbins, prins, spools, reels, cops, balls and wound packages of thread, twine, thin wire and like, construction of. 132054.

Cradles, *See* Preparation etc. (Drawing etc).

Miscellaneous processes and accessories for spinning yarns. 129997, 131350, 131526, 131850, 132844, 132861, 133036, 133603, 133617, 133916, 133941, 134587, 134645, 134975.

monitoring and/or switching device for spinning machine, *See* Spinning etc. (Miscellaneous).

piecing-up yarn, *See* Miscellaneous.

Preparation of fibrous materials for spinning—

Carding engines (including apparatus for lap forming and balling sliver). 131992, 132437, 132490, 134778.

Combing machines. No case.

Decorticating, breaking, scutching and opening apparatus or flax, hemp, cotton and wool fibres. 134220, 134647, 134868.

Drawing frames. 131325, 132299.

Feeding apparatus for openers, scutchers, carding engine and like. 132888.

Gill boxes. No case.

Gins and burring apparatus. 133929.

Heckling machines. No case.

Miscellaneous. 129895, 132206, 132208, 132614, 134220.

Spinning and twisting machines—

Creels and like feeding and delivery apparatus. No case.

Doffing, bobbin and tube applying, and like apparatus for spinning, twisting, winding and like machines. 129984, 132210, 132211, 134396.

Driving and stopping apparatus non automatic including spindles and their appartenances, driving and stopping apparatus. 130826, 131155, 131202, 132207, 133428, 134213, 135055.

Miscellaneous. 131094, 132410, 132411, 133480, 133897, 134556, 134834, 135167, 135305.

Mules and twiners (including all spinning, doubling and twisting machines of intermittent type). No case.

Rollers and roller heads. 130906, 130908, 130910, 130913, 131749, 131817, 133290, 133850, 134157.

Roving and thread guides, tension arrangements and roller beams (other than clearing apparatus and creel arrangement). No case.

Spinning and twisting machines of continuous type, types and kinds of. 131985, 132081, 132844, 133036, 133581, 134396.

Stop motions (including delivery, stopping). 129895, 133917, 134645.

Winding (other than construction of) bobbins, spools, cops, hanks, and balls of yarns, threads, cords, ropes, wire and the like. 130919, 131094, 131435, 131436, 131526, 131608, 132273, 135068.

Yarns and threads, finishing, dressing and testing and inspecting. 129997, 131349, 131350, 131747, 132614, 133617, 134241.

Splicing strip materials, *See* CUTTING, ETC.

SPRAY PRODUCERS AND SPRINKLERS. XXIX (2).

(*The nozzles indexed here are those of general and unspecified application : spray producers and nozzles applicable, solely to particular purposes are indexed under headings denoting such purposes, such as* BURNERS; FURNACES; *carburettors* (INTERNAL COMBUSTION ENGINES).

Design of jets nozzles, spreaders and atomisers. 130279, 130602, 131242, 131591, 132695, 133562.

liquid distributor for a rotating atomizer, *See* Design, etc.

nozzle for spraying, *See* Design, etc.

Spraying and sprinkling machines, general design of (other than construction of jets and nozzles). 130092, 130275, 131189, 131561, 131573, 131574, 131870, 132328, 132608, 132583, 133594, 135045, 135292.

SPRINGS AND VIBRATION DAMPERS. LII (4).

Buffers, resilient—shackles and other arrangements of springs with mountings complete in themselves (other than railway vehicle buffers). 132205, 134497.

Cushioning devices of general and unspecified application (including both system and arrangement of springs, and devices other than springs). 130277, 130378, 131951, 133504.

Gaiters and other detachable covers. No case.

Metallic springs, construction, form and mounting of. 134300.

Non-metallic materials, composed wholly or mainly of. 132493.

Pneumatic and hydraulic springs, cataracts, dashpots and fluid friction vibration dampers. 132322, 133504, 133817.

Steam and other fluid pressure hammers and presses, *See* HYDRAULIC PRESSES, ETC.

Vibration dampers (other than fluid friction). 131951, 134828.

Starch, *See* ADHESIVE, ETC.

Starting block for runners, *See* GAMES, ETC.

Starting circuit for internal combustion engines, *See* INTERNAL COMBUSTION, ETC.

Static heat generator, *See* HEATING SYSTEMS, ETC.

Steam Engines and Engine Details XLV (3).

Connecting rods, crossheads, accentries, eccentric rods, and guides, engines and like. No case.

Cylinders. No case.

Distributing and expansion valves and valve gear and valve actuating arrangements. 135075.

Flywheels. No case.

General design of steam engines and details, not otherwise provided for. 132489.

Joint making packing. No case.

Miscellaneous. No case.

Pistons and piston rods (including packing therefor). 130291, 130292, 131013, 131666, 132216, 132389, 133800, 134083, 134273, 134274, 134275, 134276, 134318, 134727.

Regulating, controlling, starting, stopping and reversing steam engines. No case.

Steam separators. 131372.

Vapour and vacuum engines. No case.

Steam Generators XLV (4).

Blow down apparatus ('including surface blow off apparatus). No case.

Drums, mud, steam and water and like chambers, shells and barrels and tube plates. No case.

Feed water, supplying and controlling. 133565.

Fire boxes (locomotive and vertical boiler type). No case.

Flues (both internal and external) and tubes, smoke, flame, fire and like, and settings,. 132991.

General design of (arrangement and disposition of tubes, etc.). 132991, 133196.

heat utilization in steam power system, *See* Miscellaneous.

Heating. 129875, 130986, 133715.

Joints, jointing and connections (including expansion hooks and rings). No case.

Miscellaneous. 130986, 133598, 133715.

Smoke-boxes. No case.

Stays and staying. No case.

Steam separators *See* STEAM ENGINES, ETC.

Tubes, water, construction of. No case.

Valves, application and arrangement of. No case.

Water circulation, auxiliary apparatus for promoting. No case.

STEAM SUPERHEATERS. XLV (5).

Chambers, heated by combustion gases. No case.

Coiled and sinuous tube apparatus and straight tube apparatus (other than fire and smoke tube apparatus). No case.

Fire and smoke tube apparatus. No case.

Miscellaneous. No case.

Mounting and supporting. No case.

Steam valves, arrangement of. No case.

Steel ingot moulding, *See* CASTING, ETC.

Steel making, *See* IRON & STEEL, ETC.

Steel making and purifying, *See* IRON & STEEL, ETC.

Steel wool, *See* METAL WORKING.

Steering stabilizer for vehicles, *See* MOTOR VEHICLES.

Steroids, *See* CARBON COMPOUNDS, ETC.

Stock cock assembly, *See* VALVES, ETC.

STONE CUTTING AND WORKING. XXV (3).

(*Excepting boring earth and rock see* MINING; EXCAVATING) 130572.

STOPPERING, FILLING AND OPENING, BOTTLES, JARS, AND LIKE VESSELS. XL (6).

(*In the heading the apparatus includes also methods depending on such apparatus.*)

Apparatus for applying closures and closure devices. 130022, 132891, 133104, 134007, 134130, 135175.

Bottling (including filling cans and tubes with liquids and opening and funnels for liquids). 130252, 131192, 131987.

Capsules closely conforming to receptacle neck, and capsule like closures. 130252, 130535, 130725, 134007, 135175.

Downwardly seated closures held in position by other means than auxiliary mechanical devices. 130022, 130535, 130725, 133028, 133237, 133590, 134007.

means combined with caps for discharging contents, *See* Stoppers, etc.

Mechanical retaining devices disposed in or outside and coacting with neck of receptacles, stoppers seated by. 129959, 131783, 133119, 133184, 133588, 134297, 134996, 135159.

Metal foil capsules of containers, *See* Capsules, etc.

Miscellaneous. 129959, 130099, 130332, 132071, 133028, 133237, 133725, 134057, 134297, 134996, 135065.

openers for metal foil capsule of containers, *See* Bottling, etc.

screw threaded closure caps with locking means, *See* Mechanical, etc.

Stoppers adapted to act as or fitted with devices to facilitate discharge of contents or admission of liquids and gases. 130092, 130099, 131256, 132691, 133184, 133725, 134223 134737, 134962.

Storage for projectiles, *See* AMMUNITIONS, ETC.

Stove burners, *See* BURNERS, ETC.

Stove, burners for, *See* BURNERS, ETC.

STOVES, RANGES AND FIRE PLACES. XV (2).

(*This heading includes only apparatus for producing heat by consumption of wood, coal, oil or gas for domestic purposes.*) 131189, 133143, 134755.

Stretcher for patients, *See* FURNITURE.

Stripping coated electrodes, method for, *See* ELECTROLYSIS AND, ETC.

Structural articles, composite, *See* BUILDINGS, ETC.

STUFFING BOXES. XLV (6).

130165, 130262, 130345, 131122, 131766, 132640, 134482, 134599, 134600, 134651, 134654.

Styryl dyes, *See* CARBON COMPOUNDS, ETC.

Substituted alkyl propionic acids, *See* CARBON COMPOUNDS, ETC.

Substituted 1-5-dihydroxy-4-8 diamino anthraquinones, *See* CARBON COMPOUNDS, ETC.

Substituted dihydroxy diphenyl compounds, *See* CARBON COMPOUNDS, ETC.

Substituted ethanols, *See* CARBON COMPOUNDS, ETC.

Substituted octahydroquinazolinediones, *See* CARBON COMPOUNDS, ETC.

Substituted pyridine derivatives, *See* CARBON COMPOUNDS, ETC.

Substituted 1, 4-quinone derivatives, preparation of, *See* CARBON COMPOUNDS, ETC.

SUGAR XVII.

(Steps in processes in sugar manufacture involving improvements in connection with distilling, evaporating, drying electrolysis filtering, grinding and crushing, mixing and agitating and sifting are indexed under headings denoting such operations.)

- Crystallisation, insulation for, *See* DISTILLING, ETC.
- Extracting sugar from raw materials, other than purifying and refining processes. 130970, 134254, 134373.
- Glucose, maltose, lactose and like. 130108, 130649, 132654, 132859, 133110, 133204, 133670, 134668, 134739.
- Miscellaneous. 130580, 130849, 131838, 132099, 132986, 131161, 133822, 133985.
- Purifying saccharine liquids and refining sugar. 130849, 133281, 134373, 135162.

Sugar cane unloading device, *See* LIFTING, LOADING, ETC.

Sugar juice refining, *See* SUGAR.

Sugared juices, crystallisation by evaporation, *See* DISTILLING, ETC.

α-sulfo-and α-sulfo alkacyl penicillins, *See* CARBON COMPOUNDS, ETC. Sulphamyl benzoic acids, preparation of, *See* CARBON COMPOUNDS, ETC.

Sulphur, *See* NON-METTALLIC, ETC.

Sulphur, preparation of, *See* NON METALLIC, ETC.

Sulphur recovery as poly-sulphide from spent liquor in pulping process, *See* PAPER

Sulphur, recovery of, *See* NON METALLIC ELEMENTS.

Sulphur trioxide, preparation of, *See* CHEMICAL COMPOUNDS, ETC.

Supari chewing gum, *See* FOOD, ETC.

Superphosphoric acid, *See* CHEMICAL COMPOUNDS, ETC.

Surgical appliances, *See* MEDICAL, ETC.

Suspension of vehicle bodies, *See* LOCOMOTIVES ETC.

Suspension of vehicle bodies, *See* MOTOR VEHICLES.

Suspension of vehicle bodies, *See* RAILWAY AND TRAMWAY VEHICLES, ETC.

Suspension of vehicle bodies, *See* ROAD VEHICLES, ETC.

Suspension of vehicle bodies, *See* VEHICLES, ETC.

Suspension polymerising vinyl. chloride, *See* CARBON COMPOUNDS, ETC.

Switch boards for telecommunication, *See* TELEPHONES, ETC.

Switches, electric, *See* ELECTRIC SWITCHES, ETC.

Switches, electric for vehicles, *See* ELECTRIC SWITCHES, ETC.

Swivelling window shutters, *See* DOOR AND, ETC.

Synchronous motor controlling exitation current of, *See* MOTOR CONTROL, ETC.

Synthesis gas, *See* GAS, ETC.

Synthesis of adamantanes, *See* CARBON COMPOUNDS, ETC.

Synthetic elastomer, *See* CARBON COMPOUNDS, ETC.

Synthetic rubber, treatment of *See* INDIA RUBBER, ETC.

System for reacting gaseous and liquid reactants, *See* CHEMICAL PROCESSES, ETC.

T

TABLE ARTICLES. LXVI (8).

(This heading includes table article like cosies, drinking vessels, egg cups, flower holders, napkings, spoons, plates, dishes, saucers and trays.)
131617.

Tablets, packaging of, *See* PACKING, ETC.

Tamarind kernel powder, preparation of, *See* GRAINS, ETC.

Tank assembly for water closet, *See* CLOSETS, ETC.

TANK AND CISTERNS. XXVIII (5).
131321

Tea drying by the apparatus, *See* DRYING, ETC.

Tea extracts, *See* DECOCTIONS, ETC.

TEA MANUFACTURE. XVIII.

(Steps in processes for tea manufacture involving improvements in connection with cooling, drying, grinding and crushing, mixing, separating or sorting, and sifting are indexed under headings denoting such operations).

- Breaking or cutting tea. 129855, 134454.
- Fermenting tea. 129855, 133572.
- Infusions, tea, coffee and like, apparatus for making, *See* DECOCTIONS, ETC.
- Miscellaneous. 129853, 127855, 134718, 135231.
- Rolling —
  - Caps, cylinders and pressure regulating means and like upper elements of horizontal rollers. No case.
  - Rollers and crushers, other than horizontal. No case.
  - Tables, doors and like lower elements of horizontal rollers (including driving gear). 132394.
  - Temperature control devices for rollers. No case.
- Tea, coffee and cocoa preparations, and substitutes. 129853, 129854, 129855, 131596, 132309, 134718, 134842, 135231, 135328.

Teaching machines, *See* BOOKS, ETC.

Tear-off closure cap, *See* STOPPERING, ETC.

Telecommunication switch boards, *See* TELEPHONES, ETC.

TELEGRAPHS, ELECTRIC, LXI (1)

- Artificial lines, attenuation equalisers, filter circuits and other impedance net works for dealing with telephone and other complex. currents. 130049, 130531, 132063, 132357, 132392, 132771, 133787, 134031, 134081, 134474.
- balun device for matching an unbalanced coaxial trasmission line to a balanced two wire line, *See* Artificial lines, etc.
- Code telegraphy —
  - Diplex, duplex and multiplex system. No case.
  - Portable or field sets. No case.
  - Receivers construction of. No case.
  - Systems and apparatus other than receivers, relays, transmitters and diplex and like systems. No case.
  - Transmitters, construction of. No case.
- color television decoding system for receivers, *See* Television, etc.
- delaying electric signal samples, device for, *See* Artificial lines, etc.
- Electric synchronous movements and synchronism indicators. No case.

- pick ups for televison signals, *See* Television, etc.
- pulse regenerator circuits for pulse code modulation systems, *See* Code telegraphy—(Systems, etc.)
- Selenium cells and light valves in which electric and magnetic stress produces optical effects. No case.
- Television and copying and writing telegraphy. 129990, 130221, 130960, 131148, 131602, 131748, 131772, 131840, 132162, 132497, 132585, 133383, 133436, 133623, 134550, 134580, 134856, 134857, 135140, 135298, 135325.
- television display tubes, *See* Vacuum, etc.
- Typewriting telegraphy. No case.

TELEPHONES AND TELEPHONE SYSTEMS, ELECTRIC LXI (2).

- Electric selector switches for telephones. 134027.
- Impulse transmitters set by hand for transmitting variable numbers of electric currents in regular trains. No case.
- pulse regenerator circuits for pulse code modulation systems, *See* Transmission systems.
- Telephone exchange systems, automatic and semiautomatic—
  - Inter exchange working. 131146, 134287.
  - Meters and metering etc. No case.
  - Miscellaneous. 131146, 135294.
  - Party line systems. No case.
- Telephone exchange systems, manual —
  - Exchange switch boards, and switch board equipment construction and arrangement of. No case.
  - Inter-exchange working. No case.
  - Meters, time indicators, and metering systems.
  - Miscellaneous. No case.
  - Party line systems. No case.
- Telephone instruments and sets—
  - Condenser telephones and other electrostatic instruments. No case.
  - Magnetic instruments. 133464, 134486, 135007.
  - Microphone and other variable resistance instruments. No case.
  - Miscellaneous. 131517.
  - Mouthpieces, ear pieces and other parts for conveying sound. No case.
  - Sets. No case.
- Telephone inter connection systems, other than exchange. 132924.
- Telephonic amplifiers and other non-contact making electric relays (other than thermionic). No case.
- Transmission systems. 129823, 132455, 132497, 134082, 135222.
- Television display tubes, *See* VACUUM, ETC.

- Temperature indicating and registering devices, *See* PHILOSOPHICAL, ETC.
- Tempering metals, *See* ANNEALING ETC.
- Terephthalates-diesters of, *See* CARBON COMPOUNDS, ETC.
- Tertiary amines, *See* CARBON COMPOUNDS, ETC.
- Textiles, dyeing of, *See* DYING, ETC.
- Textiles, printing of, *See* PRINTING.

- Theft of or tempering with automobiles, alarms for prevention of, *See* ALARMS BURGLOR, ETC.
- Thermoformable plastic composition, *See* PLASTIC COMPOSITIONS, ETC.
- Thermostatic switches electric, *See* ELECTRIC SWITCHES, ETC.
- Thickner device for concentration of solid liquid suspension, *See* WASHING GRANULAR, ETC.
- Thienylalkanderivative, *See* CARBON COMPOUNDS ETC.
- Thioalkanol-S-oxide, preparation, of, *See* CARBON COMPOUNDS, ETC.
- Thrust bearings, *See* BEARINGS, ETC.

TINNING, GALVANIZING AND COATING WITH METALS (INCLUDING TREATING METALLIC SURFACES TO PRODUCE MODIFIED SURFACE). XXXIII(9).

130203, 130370, 130591, 130813, 131012, 131194, 131503, 131505, 131872, 132187, 132444, 132837, 132916, 133400, 133482, 133483, 134121, 134503, 134597, 134630, 134677. 134678, 134898, 134960, 135205, 135207.

- Titanium dioxides, *See* CHEMICAL COMPOUNDS, ETC.
- Tobacco filters, *See* CIGAR, ETC.
- Tobacco smoke filter, *See* CIGARS, ETC.

TOILET AND PERFUMERY—LXVI (9).

129871, 130238, 130980, 131178, 131377, 131593, 131620, 132860, 132879, 133042, 133176, 133414, 133448, 133449, 133450, 133570, 133613, 133650, 133651, 133686, 133709, 133720, 134289, 134290, 134382, 134445, 134520, 134821, 134899, 134900, 134901, 135197, 135240.

- Tool holder, *See* METAL WORKING.
- Tooth paste, *See* TOILET, ETC.
- Torque convertors, *See* HYDRAULIC PRESSES, ETC.
- Towers, cooling, *See* COOLING, ETC.
- Toy, *See* GAMES, ETC.
- Toys, *See* GAMES TOYS, ETC.
- Tractor brakes, *See* BRAKES ETC.
- Tractor, disc brakes, *See* BRAKES ETC.
- Transforming vesicular images, *See* CINEMATOGRAPHY
- Transistor tester, *See* MEASURING & TESTING, ETC.
- Transistor tester, *See* WIRELESS, ETC.
- Transport carriage, pedestrian controlled, *See* ROAD VEHICLE
- Transporting objects in containers, *See* BOXES, ETC.
- Traversing element for winding filaments, *See* SPINNING. ETC.
- Triazine derivatives, preparation of, *See* CARBON COMPOUNDS, ETC.
- Triazole derivatives, *See* CARBON COMPOUNDS, ETC.
- Triazoles, preparation of, *See* CARBON COMPOUNDS, ETC.
- Triazolobenzodiazepine 5-N-oxide derivatives, *See* CARBON COMPOUNDS, ETC.
- 1,2, 3-Trithiane compounds, preparation of, *See* CARBON COMPOUNDS, ETC.
- Tube mills for grinding, *See* GRINDING, ETC.
- Tubes and pipes, making by welding, *See* METAL WORKING.
- Tucking and folding, *See* PACKING, ETC.
- Tumbler switches, *See* ELECTRIC SWITCHES, ETC.
- Tundish nozzles anging, device for, *See* CASTING METALS.
- Tunneling, *See* MINING, ETC.

TURBINES, REACTION WHEELS AND WIND MOTORS. XLIV (4).

(*This heading includes also combination of these with one another or with other motors*).

Combination plant. 131372.

fuel control system for gas turbine engine, *See* Turbines, elastic, etc.

gas turbine, control apparatus for, *See* Turbines, elastic fluid.

Turbines, elastic fluid. 130983, 131087, 131088, 131855.

Turbines, hydraulic, 131245, 131514, 131727, 131766, 131784, 131786, 133236, 135244.

Wind, motors. 130313.

Two for one twisting machine with compressed air operated threading mechanism, *See* SPINNING, ETC.

TYPEWRITERS. XXXVII (2).

130406, 141669, 132236, 132751, 133312, 134385, 134386, 135137, 135138.

Tyre and wheel assemblies, *See* WHEELS, ETC.

Tyre buffing machine, *See* WHEELS AND TYRES, ETC.

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UMBRELLAS AND WALKING STICKS. LXVI (10).

132125, 132909.

UNITING METAL TO AND SEALING METAL INTO VITREOUS MATERIALS. LXIII (3).

131035.

Universal joints, *See* MECHANISM ETC.

Unlocking tensioning member on guns, *See* SMALL ARMS, ETC.

Uracils, preparation of, *See* CARBON COMPOUNDS, ETC.

Urea, *See* CARBON COMPOUNDS, ETC.

Urea synthesis, *See* CARBON COMPOUNDS ETC.

Uretidine, 2, 4-dine, *See* CARBON COMPOUNDS, ETC.

Utilising waste-heat from exhaust of gas turbine, *See* HEATING, ETC.

Utility supply conduits, for hospitals, *See* MEDICAL, ETC.

V

VACUUM OR CONFINED GAS OR VAPOUR OR OTHER APPARATUS FOR ELECTRIC DISCHARGES. LXIII(4).

depositing of metals by cathode sputtering, *See* Miscellaneous. (130813).

Liquid electrode apparatus. No case.

Miscellaneous. 130813, 131402, 132856, 134503, 135065.

Solid electrode, apparatus—

Cathode ray tubes. 130586, 131334, 131407, 132283, 132585, 132597, 132599, 133623.

Containers and envelopes—

joining and sealing conductors, *See* UNITING METALS, ETC.

Constructions involving use of particular materials No case.

Other unclassified details. No case.

Cooling (including temperature regulation). No case.

Electrode materials—

Cathode materials : No case.

Materials other than cathode. No case.

Fillings and gettering (including regulating of vacuum)—

Compositions containing gases and vapours other than metallic. 130090.

Fillings, containing metals and metal compounds. 130090.

Gettering and regulating gaseous pressure. 130584.

Lamps—

Electrodes, arrangement, construction and mounting. 130727, 130823, 133892.

Shield, sheaths and other accessory components (condensers resistances etc.), mounted within discharge lamp. No case.

Unclassified details. No case.

luminiscent materials for discharge lamps, *See* LUMINISCENT, ETC.

Starting and operating lamps, supply systems for, *See* ELECTRIC SUPPLY, ETC.

Magnetic devices for controlling or influencing discharges (other than in cathode ray tubes) and for adjustment of electrodes. 134139.

Photo electric cells. 135211.

Rontgen ray tubes. No case.

Thermionic valves.—

Accessory components and unclassified details. No case.

Caps and terminals. No case.

Electrodes, arrangement, construction and mounting. No case.

Screens. No case.

Valves with four or more electrodes. No case.

Types, unclassified. 132015, 133439, 133623, 134105.

television display tubes, *See* Solid electrode etc.—(Cathode ray tubes).

Vulcanizing, *See* INDIA RUBBER, ETC.

Valve for lamp evacuating and filling, *See* VACUUM, ETC.

VALVES AND COCKS (OTHER THAN ENGINE AND LIKE VALVE ACTUATING ARRANGEMENTS) AND LIKE APPARATUS FOR REGULATING FLOW OF FLUIDS. XXIX (3).

Ball and float valves. 129858, 132574, 132590.

Fluid actuated valves (other than ball and float, tyre and waste-preventing). 129987, 130271, 131118, 131942, 132975, 132982, 133309, 133025, 133026, 133114, 133168, 133531, 133656, 133832, 133838, 133839, 133901, 134319, 135047, 135079.

hydraulic valves actuated by liquid and mechanical means, *See* Valves actuated, etc.

Manually and mechanically actuated valves. 129858, 130004, 131246, 131259, 131294, 132480, 132386, 132574, 133052, 133206, 133725, 133893, 133924, 134402, 134773.

Miscellaneous. 129987, 131259, 131294, 131955, 132244, 132583, 132695, 132743, 133026, 133114, 133206, 133547, 133725, 134628,135099.

Regulating volume of flow or pressure of fluids other than by valves. 131058, 132010, 132832, 132975, 133309, 135151,

Tyre and like inflating and deflating valves. 132982, 133027, 134013

Valves actuated in part by fluid and in part by mechanical means. 133546, 134002, 135027, 135075, 135079, 135169.

Vaporization vessels, coated with metals or alloys, *See* TINNING ETC. (134898).

Vapour generators, *See* STEAM, ETC.

Variable speed drive, *See* MECHANISM ETC.

Vector analyser, *See* MEASURING, ETC.

Vegetable protein, *See* FOOD PREPARING, ETC.

Vegetable protein product, *See* FOOD, ETC.

Vehicle wheel brakes, *See* BRAKES, ETC.

Vehicle window lift mechanism, control circuit for, *See* DOOR AND, ETC.

Vehicles, *See* ROAD VEHICLES.

VENTILATION. XXVI (4).

air conditioning installation, *See* Methods, etc. (Air treating, etc.)

Fans, punkah and like. No case.

Methods of and arrangement and adaptation of means for ventilation—

Air treating and conditioning (moistening, sterilising and drying etc). details in ventilating plant. 130778, 130888, 131127, 131732, 133319, 133486, 133487.

Plant combinations for circulating air in buildings, ships and vehicles. 131731, 131732, 134212.

Ventilators, ventilating shafts and valve and valve apparatus for ventilation. 134212.

Vibrating conveyor system, *See* LIFTING, ETC.

Vibration dampers for cables, *See* CONDUCTORS ETC.

Vibrator operated by compressed air, *See* MIXING, ETC.

Vinyl acetate, purification, *See* CARBON COMPOUNDS, ETC.

Vinyl polymers, *See* CARBON COMPOUNDS, ETC.

Voltage regulator, *See* ELECTRIC SUPPLY , ETC.

Vortex separator, *See* CENTRIFUGAL, ETC.

Vulcanising rubber, *See* INDIA RUBBER, ETC.

W

Warptension regulator, *See* LOOMS.

WASHING AND CLEANING BUILDING AND DOMESTIC ARTICLES OTHER THAN CLOTHES. XLIII (5)

No Case.

WASHING GRANULAR, POWDERED AND LIKE MATERIALS XXXIV (5)

Apparatus containing screening and sieving members (including jigs but not upward current classifiers). 130945.

Flotation and like selective processes and apparatus. 130945.

thickeners for concentrating solid liquid suspension, *See* Washing, etc.

Upward current classifiers. No case.

Washing, settling and decanting apparatus (other than flotation and screening apparatus and upward current classifiers.) 130095, 132969.

Washing machines, clothes, *See* DYEING, ETC.

Washing textiles, *See* DYEING BLEACHING, ETC.

Waste heat recovery apparatus, *See* HEATING SYSTEM.

WATER AND OTHER LIQUID LEVELS, REGULATING, INDICATING AND REGISTERING. XLI (9)

(*The indication and regulation of level of liquids used in measuring instruments and apparatus, other than those measuring only liquid levels are not indexed here, but under* GAUGES; PHILOSOPHICAL INSTRUMENTS; *and other headings for such instruments and apparatus.*)

130458, 130459, 130460, 133108, 133481, 133630, 134618, 134746.

WATER AND OTHER LIQUIDS, AND SEMI-LIQUIDS, RAISING, AND FORCING, OTHER THAN BY PUMPS. XLVII (4).

Bucket-elevators, scoop-wheels and like rotary apparatus. 131633.

Chain pumps, and other adhesion apparatus. No case.

Miscellaneous. 130224, 130225.

Pressure and vacuum apparatus. 130223, 130224, 130225, 131714.

Pycota and like reciprocating type of bucket apparatus. No case.

WATER AND UNSPECIFIED, LIQUIDS, PURIFYING AND SOFTENNING. II (4)

(*This heating includes also processes of hardening and importing like properties to water*).

Gaseous reagents, treatment with. No case.

Heating, treatment by. 133162.

Liquid and solid reagents, treatment with (including use of zeoloites and like reagents). 130121, 130506, 130771, 132944, 133528, 133635, 133711, 133734, 134657, 134658, 135023, 135196.

Miscellaneous. 130443, 132139, 132689, 132697, 132944, 134415.

pyrifying liquids under vacuum, *see* Miscellaneous.

Water closets, *See* CLOSETS, ETC.

Water cooling installation for, *See* COOLING ETC.

Water furifying , *See* WATER ETC.

Water soluble dyestuffs, preparafion of, *See* CARBON COMPOUNDS, ETC.

Water soluble metaliferous disazo dyestuffs, *See* CARBON COMPOUNDS, ETC.

Water soluble monoazo dyestuffs, preparation of, *See* CARBON COMPOUNDS, ETC.

Wax sealing device, electric, *See* BAGS, ETC.

WAXES, SHELLAC AND FATTY ACIDS FOR SOAP AND CANDLE MAKING XI (3).

Fatty acids (including only oleic and other acids for soap and candle making). No case.

Shellac and resin and resinous compounds (other than synthetic) No case.

Synthetic resins, *See* CARBON COMPOUNDS, ETC.

Waxes, 133278, 135144, 135212.

WEBS AND SHEETS AND OTHER FLEXIBLE MATERIA, FEEDING AND DELIVERING . XXXVII (3).

132219, 132230, 133820, 134542, 135068, 135168, 135242.

WEIGHING APPARATUS XLI (10).

130744, 131460, 132290, 134265, 134629, 134893, 135099

Weighting arms for rollers , *See* SPINNING, ETC.

Welding , *See* METAL WORKING.

Welding metals, *See* METAL WORKING.

Well logging electrically, *See* MEASURING AND TESTING, ETC.

Wheel brakes, lock actuators for, *See* BRAKES, ETC.

Wheel tyres for pneumatic tyres, *See* WHEELS, ETC.

WHEELS AND TYRES FOR VEHICLES LVI.

Air tubes and chamber for pneumatic and like tyres. No case.

Building and repairing wheels and tyres. 131120, 131906, 132738, 133692, 1338845, 134231, 134693, 135164, 135296.

Disc and spoke wheels (other than spring wheels), general design of. 133413.

Hubs for wheels. No case.

Jackets and covers for pneumatic and other elastic tyres. 135296.

Metallic and non-metallic cores for tyres. 131641, 133128, 134627.

Miscellaneous. 130200, 131737, 131738, 131739, 131740, 131741, 133072, 133845, 134952, 135164.

Pneumatic and other elastic tyres construction of (other than air tubes and chambers, jackets and covers, metallic and non-metallic cores, tread-bands projections and surfaces). 130234, 130363, 130723, 130821, 130932, 131120, 131496, 131532,. 131641; 131691; 131692; 131693, 131730, 131741, 131964, 132738, 132866, 133845, 134693, 134786, 135053, 135104, 135131, 135296.

Rims and felloes for wheel tyres. 130723, 131785, 134055.

Spring wheels, 132615.

Tread bands, projections and surfaces of pneumatic and like tyres. 131546, 132496, 133072, 133128, 134627.

Tyres, non-elastic. No case.

Whipping cream, *See* FOOD, ETC.

Winches, *See* LIFTING, ETC.

Wind screen wipers, *See* ROAD VEHICLES.

Winding machines for yarns and the like, *See* SPINNING, ETC.

Window frames, *See* DOORS ETC.

Wire gauge, *See* GAUGES, ETC.

WIRELESS SIGNALLING AND CONTROLLINNG. LXII.

Aerials and like radiating and receiving conductors. 130531, 132289, 132997, 133177, 133889.

Diplex, duplex and multiplex systems, utilising. 130221, 131148, 132162, 133383, 134473.

Directive, propagating and receiving systems (including bearings or location determining). 131898, 132997.

Electric oscillations, high frequency, producing by means other than thermionic valves and other discharge tubes 130763, 134573, 134741, 135298.

enclosure for electronic components, *See* Miscellaneous.

filter, rejector and separator circuit for blocking or separating electric currents of particular frequencies or ranges, *See* TELEGRAPHS, ELECTRIC.

integrated semiconductor device, *See* Miscellaneous.

Miscellaneous. 129848, 129882, 129899, 129917, 130036, 130069, 130070, 130071, 130284, 130293, 130422, 131026, 131174, 131255, 131474, 131480, 131548, 131549, 131585, 131683, 131775, 131822, 131910, 132077, 132321, 132353, 132379, 132392, 132468, 132547, 132585, 132597, 132598, 132599, 132600, 132601, 132602, 132733, 132771, 132778, 132779, 132922, 132977, 133044, 133092, 133173, 133282, 133365, 133374, 133439, 133502, 133541, 133623, 133765, 133858, 133936, 134043, 134044, 134046, 134112, 134370, 134465, 134652, 134741, 134759, 134765, 134781, 134788, 134875, 134881, 134693, 135037, 135140, 135145, 135232, 135247, 135247, 135267, 135271, 135298,

pulse regenerator circuits for pulse code modulation systems, *See* Secret and selective, etc.

rader circuit system, *See* Directive, etc.

Receiving systems and apparatus (other than for directive, diplex , duplex, secret and selective systems). No case.

Secret and selective systems requiring specially co-ordinated transmitter and receivers, and other systems not using simply amplitude modulation or interruption, utilising. 130221, 130283, 130285, 131148, 131478, 132162, 133044, 133383, 134473. 134929.

semiconductor devices, *See* Miscellaneous.

Thermionic valve circuits for amplifying, generating, modulating receiving and relaying—

- Amplifying audio frequency currents and television and copying telegraph signals. 132392.
- Generating oscillatory and alternating currents (including high frequency transmitting amplifiers). 131478, 133786, 134573, 135009.
- Modified for current and voltage supply thereto. No case.
- Modulation and interruption of high frequency currents, for. 132356.
- Receiving high frequency signals. 133785.
- Relay circuits. No case.

Utilising discharge tubes of special type and negative resistance tubes in general. No case.

Transmitting systems including keying. 130920, 132455, 133044, 135326.

Wired-wireless systems. No case.

Wireless receiving sets, construction and control of. 130632. 131794, 133785.

WOOD CUTTING AND WORKING XLIII(6).

131409, 134178, 134885.

WRITING APPLIANCES, INK AND RECEPTACLES FOR WRITING MATERIALS. XLII(6).

129864, 130928, 131132, 131143, 131629, 131630, 131921, 131967, 132051, 132052, 132053, 132860, 133186, 133550 133979, 133992, 134147, 134456, 135230.

X

X-ray photography, *See* PHOTOGRAPHY.

Y

Yeast, *See* FOOD, ETC.

Z

Zinc recovering from wastes, *See* METALS EXTRACTING, ETC.

Zinciferrous ores, volatilising metals for, *See* METALS EXTRACTING, ETC.

PART III

Special Proceedings (Patents), 1973

This part contains the list of special proceedings in continuation of the corresponding lists included in the consolidated lists of patents 1912—1920 and the Annual Journals published since, 1921.

A. Void applications. The applications bearing the following numbers have not been accepted and are deemed to have been abandoned either under Section 4A(2) of the Indian Patents and Designs Act, 1911 or Section 9(1) or 21(1) of the Patents Act, 1970 or which came into force on the 20th April, 1972. The specifications of these applications have not been printed and will not be open to public inspection except with the consent of the applicant.

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132996 133006 133008 133009 133013 133016 133017 133018
133019 133030 133031 133033 133034 133035 133039 133040
133041 133050 133060 133062 133063 133067 133068 133069
133073 133075 133076 133080 133081 133082 133083 133084
133085 133086 133088 133089 133091 133094 133095 133096

133098 133099 133105 133111 133115 133120 183121 133125
133126 133141 133142 133151 133152 133153 133154 133183
133187 133188 133189 133190 133194 133195 133200 133205
133211 133212 133217 133218 133219 133220 133221 133224
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133252 133258 133259 133262 133263 133264 133265 133266
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133306 133307 133308 133310 133311 133314 133315 133322
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133364 133366 133370 133375 13376 133377 133388 133389
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133445 133446 133459 133462 133467 133469 133473 133474
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133503 133507 133510 133520 133521 133522 133523 133524
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133559 133563 133564 133569 133571 313573 133574 133575
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133616 133618 133627 133632 133636 133637 133646 133647
133648 133653 133664 133665 133666 133672 133679 133681
133682 133687 133688 133691 133694 133696 133697 133699
133702 133703 133704 133712 133613 133716 133721 133724
133726 133730 133735 133737 133743 133746 133747 133753
133757 133760 133762 133770 133771 133775 133777 133778
133780 133781 133792 133793 133794 133795 133796 133804
133807 133809 133811 133815 133816 133826 133834 133835
133837 133851 133855 133864 133866 133867 133868 133869
133870 133871 133872 133873 133874 133875 133876 133886
133891 133895 133898 133899 133900 133905 133908 133923
133926 133930 133931 133932 133937 133942 133943 133947
133950 133951 133957 133962 133963 133964 133970 133971
133976 133977 133993 133994 133996 133998 134000 134004
134005 134006 134008 134011 134012 134018 134020 134021
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134109 134113 134114 134115 134119 134122 134123 134124
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134142 134143 134144 134145 134153 134155 134159 134172
134175 134179 134180 134182 134183 134191 134192 134197
134198 134199 134200 134202 134204 134205 134210 134219
134232 134233 134234 134236 134239 134242 134243 134245
134249 134252 134257 134260 134262 134263 134264 134270
134271 134296 134298 134302 134303 134309 134310 134311
134314 134315 134317 134320 134331 134335 134336 134337
134338 134341 134345 134346 134347 134348 134349 134361
134364 134366 134367 134372 134376 134379 134389 134390
134394 134397 134403 134404 134405 134407 134408 134412
134421 134423 134426 134427 134428 134432 134433 134434
134435 134438 134443 134446 134447 134448 134459 134460
134469 134472 134479 134480 134481 134483 134485 134487
134488 134493 134501 134505 134506 134514 134516 134519
134521 134529 134530 134535 134544 134547 134555 134562
134568 134575 134579 134581 134585 134588 134593 134595
134596 134601 134611 134612 134613 134614 134615 134617
134623 134625 134633 134634 134636 134642 134643 134648
134649 134661 134666 134671 134682 134683 134684 134685
134686 134691 134695 134696 134697 134701 134707 134725
134726 134728 134729 134742 134744 134745 134750 134751
134757 134761 134764 134767 134770 134774 134775 134776
134784 134789 134790 134796 134797 134801 134807 134808
134809 134811 134812 134815 134817 134820 134822 134836
134837 134838 134843 134844 134849 134850 134851 134866
134867 134869 134870 134878 134883 134886 134888 134895
134907 134911 134912 134915 134916 134918 134921 134922
134927 134928 134932 134933 134934 134935 134938 134939
134940 134941 134942 134943 134944 134945 134946 134954
134959 134961 134965 134966 134969 134972 134983 134985
134986 134987 134990 134993 134994 134997 135002 135005
135016 134021 314025 135026 135028 135031 135032 135034
135035 135041 145048 135050 135051 135059 135070 135073
135080 135081 135082 135090 135095 135098 135100 135101
135109 135119 135120 135136 135141 135142 135143 135148,
135152, 135155 135157 135161 135171 135174 135188 135192
135193 135194 135214 135215 135220 135225 135226 135228
135229 135241 135243 135248 135254 135258 135259 135260
135261 135262 135264 135266 135268 135269 135279 135282
135288 135299 135301 135311 135312 135327 135334 135343.

B.—Abandoned applications. The applications bearing the following numbers have been accepted and the specifications printed but patents have not been sealed thereon within the period prescribed in Section 43(2) of the Patents Act, 1970
129857, 130046, 130268, 130611, 130661, 130663, 130776, 131169, 131882, 132490, 132521, 132539, 132590, 133141. 133215, 133274, 133614, 134167, 135114, 135291, 135333.

C.—Oppositions to the grant of patents—(Section 25)

Application No.	Name of applicant	Result
1	2	3
84308	Lepetit S.p.A. . . .	Pending.
126056	President of Osaka University.	Opposition has been treated as withdrawn.
128926	Harbans Lal Malhotra & Sons Pvt. Ltd.	Opposition dismissed.
128931	-do-	Opposition treated as withdrawn.
129244	M.P. Thomas . . .	Application treated as withdrawn.

1	2	3
129344	Prem Lala Khetan	1st Opposition pending. 2nd Opposition pending.
129582	Sumitomo Chemical Co. Ltd.	Pending.
129784	The Ohio Brass Co.	Pending.
129821	Harbans Lal Malhotra & Sons Pvt. Ltd.	Opposition treated as withdrawn.
130610	Pressure Cookers and Appliances Pvt. Ltd.	Pending.
130611	-do-	Pending.
130656	Charan Das Ghai and Vinod Kumar Ghai.	Opposition treated as dismissed for lack of jurisdiction.
130666	Harbans Lal Malhotra & Sons Pvt. Ltd.	1st Opposition has been dismissed. 2nd Opposition, application treated as abandoned.
130667	-do-	1st Opposition pending. 2nd Opposition has been dismissed.
130941	Mangat Lal Malhotra.	Opposition treated as withdrawn.
131007	Oei Ahmed Basha.	Opposition partly allowed, a patent will be sealed subject to the amendment of the specification.
131012	Wilkinson Sword Ltd.	Pending.
131024	Amitava Ghosh Dastidar.	Pending.
131043	Radio Foundation Engg. Ltd.	Pending.
131158	The Rurrakur Coal Co. Ltd.	Opposition has been dismissed.
131194	The Gillette Co.	Application treated as withdrawn.
131353	Shirou Ichinose	Opposition treated as abandoned.
131439	Shyam Sunder Ghosh	Opposition has been allowed in part. A patent will be sealed subject to the amendment of the specification.
131440	-do-	Pending.
131513	Combustion Engineering Inc.	Opposition has been allowed.
131531	Dunlop Holding Ltd.	Pending.
131812	E.I. du Pont de Nemours and Co.	1st Opposition. Pending. 2nd Opposition. Opposition has been treated as cancelled. 3rd Opposition. Opposition has been treated as abandoned.
132382	Marshall's Tea Machinery Co. Ltd.	Pending.
134527	Amitava Ghosh Dastidar.	Opposition has been treated as withdrawn.
134528	-do-	-do-

D. Amendments (Section 57)

(The date given is the date of the Gazette of India in which the last notice appeared).

Patent or Application No.	Date	Patent or Application No.	Date
78481	19th May, 1973.	128185	25th August, 1973.
83044	26th May, 1973	128278	3rd February, 1973
117347	24th November, 1973	128669	11th August, 1973.
118166	16th June, 1973.	128831	17th November, 1973.
111402	3rd February, 1973.	128885	24th November, 1973.
115982	25th April, 1973.	128976	17th March, 1973.
118810	3rd February, 1973.	128917	12th May, 1973.
121513	9th June, 1973.	128922	8th December, 1973.
122077	19th May, 1973.	128977	12th May, 1973.
122770	3rd February, 1973.	128978	19th May, 1973.
123739	14th July, 1973.	128995	2nd June, 1973.
123802	31st March, 1973.	129179	12th May, 1973.
124707	26th May, 1973.	129329	29th September, 1973.
125186	6th January, 1973.	129385	12th May, 1973.
125617	17th February, 1973.	129621	19th May, 1973.
125693	17th May, 1973.	129718	12th May, 1973.
126019	17th November, 1973.	129728	20th October, 1973.
126466	12th May, 1973.	129730	12th May, 1973.
126786	12th May, 1973.	129750	12th May, 1973.
126835	31st March, 1973.	127816	10th November, 1973.
126840	19th May, 1973.	129919	10th February, 1973.
126890	25th August, 1973.	130283	3rd March, 1973.
126926	17th February, 1973.	130323	24th November, 1973
127109	30th June, 1973.	130372	20th October, 1973.
127481	3rd February, 1973.	130466	19th May, 1973.
127483	12th May, 1973.	130637	12th May, 1973.
127484	22nd December, 1973.	131995	22nd December, 1973
127558	19th May, 1973.	131339	3rd February, 1973.
127716	31st March, 1973.	131416	12th May, 1973.
127877	19th May, 1973.	131974	25th August, 1973.
127981	10th February, 1973.	132112	12th May, 1973.
127990	3rd February, 1973.	132890	25th August, 1973.
128019	31st March, 1973.	132945	8th December, 1973.
128153	25th August, 1973.		
128172	31st March, 1973.		

E. Restoration of lapsed patents. (Section 60).

(a) Granted: 69344, 71381, 72817, 74435, 74623, 79955, 83050, 84567, 86352, 92723, 93749, 94729, 95597, 96395, 98084, 99306, 99371, 99419. 102556, 102574, 102974, 102986, 104561, 104640, 104728, 105714, 105984, 107298, 107455, 103307, 108353, 108674, 108730, 109722, 111026, 111552, 111559, 111817, 112494, 115325, 115326, 115714, 118352, 118536, 121684, 126523, 129398.

(b) Pending:—72263, 82208, 104225, 110643, 111581, 112694, 114395, 116714, 121769, 121770.

F. Correction of clerical ersors. [Section 78(1)].

117116, 119247, 119593, 114207, 116407, 112513.

G. Alteration of dates.

(a) Ante-dated to—

Application No.	Date allowed
99832	15th November, 1962.
104059 104060	1st May, 1964.
105120	16th August, 1962.
113973	1st April, 1965.
113399	1st July, 1966.
114113 114114 114115	27th April, 1966.
125498	3rd July, 1967.
126849	13th July, 1967.
127850	26th February, 1969.
128564	24th March, 1969.
128565	24th March, 1969.
128586	12th February, 1968.
129588	31st July, 1968.
130507 130508	11th November, 1963.
135389 (737/CAL/73)	24th June, 1971.
135390 (738/CAL/73)	24th June, 1971.
135391 (739/CAL/73)	24th June, 1971
132236	27th February, 1971.
133952	25th August, 1971.
134118	17th March, 1970.
134526	9th April, 1971.
134527	9th April, 1971.
134528	9th April, 1971.
134905	27th October, 1970.
135326	18th June, 1971.
135353 (1151/72)	15th September, 1971.
135355 (1236/72)	15th December, 1970.
135356 (2070/72)	24th December, 1970.
135357 (2083/72)	7th December, 1970.
135358 (840/72)	14th April, 1971.
135360 (1495/72)	12th December, 1970.
135364 (149/CAL/73)	15th February, 1971.
135368 (144/CAL/73)	30th July, 1970.
135370 (121/CAL/73)	26th April, 1971.
135371 (241/72)	25th September, 1970.
135373 (406/72)	16th February, 1971.
135382 (667/CAL/73)	15th February, 1971.
135383 (1135/CAL/73)	15th February, 1971.
135384 (762/CAL/73)	14th June, 1971.
135386 (2240/72)	19th April, 1971.
135395 (451/CAL/73)	
135396 (121/72)	1st August, 1969.
135403 (2206/72)	19th December, 1970.
135405 (865/CAL/73)	8th July, 1971.
135410 (1066/CAL/73)	20th March, 1971.
135412 (407/72)	
135413 (408/72)	16th February, 1971.
135414 (191/CAL/73)	16th March, 1971.
135418 (1292/CAL/73)	6th September, 1971.
135420 (1111/CAL/73)	4th June, 1971.
135424 (140/CAL/73)	16th June, 1970.
135425 (538-CAL/73)	28th December, 1970.
135435 (917/CAL/73)	5th August, 1971.
135436 (1391/CAL/73)	27th July, 1971
135450 (1297/CAL/73)	
135451 (1298/CAL/73)	
135452 (1299/CAL/73)	23rd July, 1971.
135453 (1300/CAL/73)	
135457 (160/CAL/73)	16th October, 1971.
135458 (2273/72)	6th May, 1971.
135465 (1672/CAL/73)	22nd June, 1971.
135470 (1461/72)	16th June, 1971.
135476 (883/CAL/73)	8th June, 1973
135487 (1896/CAL/73)	13th September, 1971.
135493 (1801/CAL/73)	20th October, 1971.
135495 (312/CAL/73)	1st October, 1971
135507 (409/CAL/73)	24th September, 1971.
135527 (1572/CAL/73)	4th October, 1971.
135528 (2383/CAL/73)	4th October, 1973.
135538 (2431/CAL/73)	13th August, 1968.
135540 (45/BOM/72)	8th February, 1971.
135550 (1800/72)	11th August, 1970.

Post-dated to—

Application No.	Date allowed.
129698	11th November, 1971.
132764	6th June, 1972.
132303	21st October, 1971.
130520	1st December, 1971.
131437	4th October, 1971.
132615	1st July, 1972.
134048	14th January, 1972.
134274 134275	2nd March, 1972.
134276	2nd March, 1972.

(c) In the following cases the claim to convention date has been abandoned or disallowed and the applications have been allowed to proceed as an ordinary application.

Application No. 84308 90746 97212 106110 120510 126723 128607 129502 130345 130465 130536 130686 130919 130975 131801 132392 132737.

II.--Assignments, licences or other transactions affecting the interests of the original patentees have been registered in respect of the following patents. The number of each patent is followed by the name of the applicant for registration.

59128	Sonex and Jacobi and others.
59128	British Steel Corporation
61407 61408	Midland Ross Corporation.
61407 61408	British Steel Corporation.
61962	Pibco Ltd.
63179	Midland Ross Corporation.
63179	British Steel Corporation.
63238	Pibco Ltd.
63444	Midland Ross Corporation.
63444	British Steel Corporation.
64151	Midland Ross Corporation.
64151	British Steel Corporation.
67170	Midland Ross Corporation.
67170	British Steel Corporation.
68373	British Steel Corporation.
68457	Fisons Industrial Chemicals Limited.
70627 70628	Ernst Jacobi & Co. K.G.
70627 70628	Sonex and Jacobi and others.
71309	Sonex and Jacobi and others.
71473	Ecolaire Incorporated.
72103	Goodyear Tire & Rubber Company.
72609	The Bendix Corporation.
72635	Hooker Chemical Corporation.
73180	Borgs Fabriks AB.
73389	Industrie Pirelli Societa Per Azioni.
73420	Howker Siddeley Power Transformer Ltd.
73848 73849	Industrie Pirelli Societa Per Azioni.
74210	Societa Franco-Hispano-Americaine, Francispam.
75477	Midland Ross Corporation.
75477	British Steel Corporation.
75805	Industrie Pirelli Societa Per Azioni.
77478	Vernon & Company (Pulp Products) Ltd.
78055	British Steel Corporation.
79620	Industrie Pirelli Societa Per Azioni.
79707	Midland Ross Corporation.
79707	British Steel Corporation.

79809	Midland Ross Corporation.
79234	H.T. Golde GmbH.
79815	Bogs Fabriks AB.
79893	The Benfield Corporation.
80826	R.K. Dewan.
80911	Industrie Pirelli Societa Per Azioni.
81799	Comet Industrial Corporation.
83044	Captocaps Pvt. Ltd.
83390	Pibco Ltd.
84247	Captocaps Pvt. Ltd.
84737	Production Technology, Inc.
85161	H.T. Golde GmbH.
85290	Regina Glass Fibre Ltd.
85962	USM Corporation.
86015	Sonex and Jacobi and others.
86018	British Steel Corporation.
86597	Amphenol Corporation.
87814	Firma Faunwerke-Kommunalfabrzeuge Und Lastkraftwagen-Karl Schmidt.
90262	Sonex And Jacobi and others.
90766	Duo International, Inc.
91030	Industrie Pirelli Societa Per Azioni.
91426	Metal Box Company Ltd.
91659	Industrie Pirelli Societa Per Azioni.
91792	The Textile & Allied Industries Research Organisation.
92462	Industrie Pirelli Societa Per Azioni.
92778	Wende Sidelor.
92987	Haussermann Lamellen.
93671	Letra Pak International AB.
93715	Letra Pak International AB.
93920	British Steel Corporation.
94026	Wean United Inc.
94314	Hans Heynau GmbH.
94592	Sonex And Jacobi and others.
95009 95010	Industrie Pirelli Societa Per Azioni.
95435	Firma Faunwerke-Kommunat-fabrzeuge Und Lastkraftwagen-Karl Schmidt.
95525	Industrie Pirelli Societa Per Azioni.
95839	British Steel Corporation.
96103	Hind Razor & Blade Company Private Ltd.
96153	The Standard Batteries Ltd.
96460	Sonex And Jacobi and others.
96582	The Benefield Corporation.
97020	The B.F. Goodrich Company.
97243	Industrie Pirelli Societa Per Azioni.

97244 97245	Wende Sidier
97811	Rameshbhai Ramanlal Parikh Esq.
98439	Sun Research and Development Company.
99056	USM Corporation.
97783	Oxy Metal Finishing Corpn.
99508	Industri Pirelli Societa Per Azioni.
102204	Oesterreichisch—Amerikanische Magnesit A.G.
102204	General Refractories Company.
102303	Viobin Corporation.
102758	Production Technology, Inc.
102785	Veb Chemiefaserkombinet Schivarza "Wilhelm Pieck"
103067	Wende Sidelor.
103163	Tatabanyai Szaubauyak.
103382	Sirco Engineering Ltd.
103959	Wende Sidelor.
103983	Industrie Pirelli Societa Per Azioni.
104765	Veb Delicia.
105947	The Colonial Sugar Refining Company Ltd.
106803	Wende Sidelor.
107080	Sun Oil Company of Pennsylvania.
107544	Faberge, Inc.
107829	Wende Sidelor.
107943	Unifoam A.G.
108146	Biyanis.
109039	Faberge, Incorporated.
109743	Hughes Tool Company.
109906	Wende Sidelor.
101195	Sun Research and Development Company.
110360	Hughes Tool Company.
111078	Veb Chemifaser-kombinet Schwarza "Wildhelm Pieck"
111914	Dano AG.
111986	Tor-Isteg Steel Corporation.
112036	Wende Sidelor.
112051	Sun Oil Company of Pennsylvania.
112160	Wende Sidelor.
112378	Industrie Pirelli Societa Per Azioni.
112388	Wende Sidelor.
112424	Ferdinaud Van Damme & Fils S.p.r.l.
112479 112480	Captocaps Pvt. Ltd.
112497	Industrie Pirelli Societa Per Azioni.
112744	Vari-Phase, Inc.
112777	National Research Development Corporation of India.
112883	Raj K. Dewan.
112928	Tor-Isteg Steel Corporation.
113115	National Research and Development Corporation of India.
113290	Hughes Tool Company.
113332	Industrie Pirelli Societa Per Azioni.
113512	British Steel Corporation.
113627	Industrie Pirelli Societa Per Azioni.
113691	British Steel Corporation.
113671	Chubb Fire Security Ltd.
113700	The Standard Batteries Ltd.
113711	ICI America, Inc.
113743	National Research and Development Corporation of India.
113777	National Research and Development Corporation of India.
113807	Sonex And Jacolie and others.
114162	Teledyne Mid-America Corporation.
115007	Industrie Pirelli Societa Per Azioni.
115067	British Steel Corporation.
115139	Provair Limited.
115393	Industrie Pirelli Societa Per Azioni.
115448	Industrie Pirelli Soçieta Per Azioni.
115576	Shivon Epoxilite Pvt. Ltd.
115578	Sun Oil Company of Pennsylvania.
115586	Industrie Pirelli Societa Per Azioni.
115728	Sun Oil Company of Pennsylvania.
115855	Ciba—Geigy AG.
115935	Viobin Corporation.
116033	Industrie Pirelli Societa Per Azioni.
116244	Industrie Pirelli Societa Per Azioni.
116250	Industrie Pirelli Societa Per Azioni.
116379	Unifoam A.G.
116601	Industrie Pirelli Societa Per Azioni.
116658 116659	Citrex S.A.
116916	Sun Research and Development Corporation.
117403	National Research and Development Corporation of India.
118256	National Research and Development Corporation of India.
118413 118414	Borgs Fabriks AB.
118477	National Research and Development Corporation of India.
118570	National Research and Development Corporation of India.
118599	Sun Oil Company of Pennsylvania.
118634	Industrie Pirelli Societa Per Azioni.
119195	Industrie Pirelli Societa Per Azioni
118667	The Benefield Corporation.
118931	Sun Research and Development Company.

119142	National Research and Development Corporation of India.
119143	National Research and Development Corporation of India.
119695	Cement Distributors Ltd.
119892	Sun Research and Development Company.
120255	The Benfield Corporation.
121071	Mrs. Vardhini Seharwaechter.
121364	Faribairu Lawson Ltd.
121425	Zerox Corporation.
121995	Sun Oil Company of Pennsylvania.
122114	National Research and Development Corporation of India.
122264	Sun Research and Development Company.
122495	The Benfield Corporation.
122555	Olin Corporation.
122568	National Research Development Corporation of India.
123505	Sun Research and Development Company.
123527	National Research Development Corporation of India.
123585	Tata Iron & Steel Co., Ltd.
123819	Sun Research and Development Company.
123949	Wean United, Inc.
124025	Wean United Inc.
124187	Sonex And Jacobi & Others.
124326	Teledyne—Mid America Corporation.
124393	Citrex S.A.
124815	Faribairu Lawson Ltd.
125034	Mahle Gasellschaft Mit Beschrankter Haftung.
126797	Scherico Ltd.
127126	The President of India.
127189	The President of India.
127309	Zerox Corporation.

PART IV

Patents in force on the 31st December, 1974

66293, 66298, 66299, 66300, 66301, 66302, 66303, 66304, 66311, 66362, 66363, 66378, 66386, 66389, 66393, 66394, 66399, 66402, 66405, 66406, 66408, 66409, 66426, 66428, 66458, 66473, 66478, 66485, 66506, 66516, 66536, 66539, 66543, 66546, 66561, 66562, 66567, 66573, 66600, 66607, 66615, 66627, 66655, 66662, 66680, 66683, 66685, 66687, 66694, 66701, 66712, 66721, 66723, 66730, 66731, 66738, 66773, 66774, 66786, 66792, 66805, 66807, 66815, 66816, 66818, 66830, 66837, 66854, 66870, 66874, 66895, 66896, 66897, 66904, 66908, 66911, 66930, 66935, 66947, 66948, 66959, 66978, 67014, 67015, 67017, 67032, 67038, 67042, 67059,

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PART V

Designs Registered during the year 1972

The following designs were registered under the Designs Act, 1911, during the year 1972. The number included in each entry is the registration number of the design. The date following each entry is the date of registration of the design included in that entry. The date shown in crescent brackets are the dates allowed under Section 78-A of the Act.

Class 1.—Articles composed wholly of metal or in which metal predominates and jewellery.

Aarson Insulators, 9 UB. Jawahar Nagar, Delhi. 138972, September 3, 1971. Fan.

A. E. W. Industries, Indian proprietor concern, 18, Netaji Subhash Marg, Darya Ganj, Delhi-6, India. 139910, May 22, 1972. Jack. 139911, May 22, 1972. Handle for jack. 139912, May 22, 1972. Jack for motor vehicles.

Agro Instrument Corporation, 62/j/1 Maharaja Tagore Road, Calcutta-31, West Bengal, India. 139280, December 7. 1971. Dials for vacuum measuring gauges.

Aktiebolaget Svenska Flaktfabriken, Sickla Alle 1, Nacka, Post Box 20040. 10460 Stockholm, Sweden. 140084, July 27. 1972. A kitchen hood.

Amar Nath Barry, Modern Watch House, Chandni Chowk, Fountain. Delhi (India). 138975, September 4, 1971. Rear view mirror. 139154, November 11, 1971. A read view mirror. 139212, November 23, 1971. A rear view mirror.

Amritsar Optical Industries, Village & P.O. Kot Khalsa, Amritsar. Punjab. 138933, August 25, 1971. Goggles. 138934. August 25, 1971. Goggles frames. 139048, September 23, 1971. Goggles frames.

Anthony Mathias Dias, 650, Girgaum Road, 1st Floor, Sharaff Manzil, Dhobi Talao, Bombay-2, State of Maharashtra, India 139285, December 13, 1971. Fuel filters.

Ashfaq Ahmed. P.O. Aligarh, Uttar Uradesh, India 139497, February 3, 1972. Lock.

Asian Advertisers, 20, Kala Bhavan, 4th Floor, 3, Mathew Road. Opera House, Bombay-4. (Maharashtra). 140195, August 30, 1972. Bottle opener.

Aurobrite (India) Private Ltd., 408, Himalaya House, Paltan Road, Bombay-1, Maharashtra State, India. 139228, November 24, 1971. A clothes hanger. 139262, December 4, 1971. A clothes hanger.

Avis (India) Private Ltd., Duffrin Brigade, Mori Gate, Delhi-6, India. 138734 and 139834, June 3, 1971. Car coolers.

Avon Plastic Corporation, Modi Nagar Road, Hapur, District Meerut, Uttar Pradesh, a firm registered under the Indian partnership Act, 1932. 139046, September 23, 1971 Hook.

Baba Industrial Corporation, 9841, Gali No. 6, Multani Danda, Paharganj, New Delhi. 139985, June 26, 1972. Cable lock.

Babuji Shilpi, "Anita" Flat No. 62, Mount Pleasant Road, Bombay-6, Maharashtra, India. 139042, September 21, 1971, Folding chair. 139464, January 25, 1972. A toy scooter.

Babubhai Fakir Chand Kansara, Lal Gate, Khand Bazar, Surat, Gujarat, India. 138882, August 5, 1971. A tray.

Bal Bhalchandra Mundkur, C/o. Ulka Advertising (P) Ltd., 4-Nirmal, Nariman Point, Bombay, Maharashtra (India). 139382 to 139384 and 139388, December 31, 1971. An incandescent electric lamp. 139385, 139387, 139389 and 139392, December 31, 1971. An incandescent electric lamp shade with fittings. 139381, 139386, 139390 and 139391, December 31, 1971. An incandescent electric lamp shade.

Basant Pran & Co., 9. Old Court House Street, Calcutta-1, West Bengal, India. 139026, September 16, 1971. Metal clad power switch.

Bharat General Stores, Patel Terrace, No. 222 B & C, T.O. Road, Bombay-28, (Maharashtra). 138940, September 1, 1971. Cap setter.

Calcutta Chemical Co., Ltd., The, an Indian Public Limited. Joint Stock Company registered under the Indian Companies Act, 1913, 35, Panditia Road, Calcutta-29, West Bengal. 139297, December 15, 1971. Container.

Chandan Industries. 26, Bombay Talkies Compound, Malad (West), Bombay-64, Maharashtra, India. 139102, October 20. 1971. A strainer.

Chawla Auto Spares, 2597-98-B Jorawar Singh Mar, Hamilton Road, Kashmere Gate, Delhi-6. 138672, May 13. 1971. Retrovisors.

Colfax Laboratories (India) Private Limited. Rua S. Tome, Panjim, Goa, India. 139649 & 139650, March 14, 1972. A container.

Dhan Raj Jain, Dev Raj Jain, Sushil Kumar Jain, Sudershan Kumar Jain and Kesra Devi, 2/78, Roop Nagar, Delhi-7, India. 139240 and 139241, November 27, 1971. A knob for a bathroom fiitting.

Diamond Clock Manufacturing Co., Pvt., Ltd., 1180, Budhwar Peth, Poona-2, Maharashtra State, India. 139077, 139078, 139080 and 139081, October 7, 1971. Fate meter for vehicles.

Dina Nath Berry, proprietor of Modern Watch House, Chandni Chowk, Fountain, Delhi-6. 139572, February 18, 1972. A rear view mirror. 140146, August 14, 1972. A mirror bracket.

Dipika Metal & Allied Industries, an Indian partnership firm duly registered under the Indian partnership Act, 136, Tardeo Road, Bombay-34, State of Maharashtra, India. 139005 to 139008 and 139010, September 13, 1971. A pencil sharpener. 139009 and 139011 to 139012, September 13, 1971. The blade of a pencil sharpener.

Doctor Needle Mfg. Co., 19/21, Ladwadi, Oil Hanuman Lane, Bombay-a, Maharashtra. 139714 and 139715, March 30, 1972. Hypodermic needle.

Empresa Bhaiana De Mineraes Ltd., a Brazilian body corporate, Caixa Postal, 434, Salvador, Bahia, Brazil. 139864, May 9, 1972. Finished gem.

Everbright Metal Works, an Indian partnership firm duly registered under the Indian partnership Act, 25-C, Nishanpada Cross Lane, Kaiserbai Mansion, Dongri, Bombay-9, State of Maharashtra, India. 139394, January 1, 1972. Buckles for pants, trousers or the like.

Fazal Elahi & Sons, Bazar Chowk, Moradabad, U.P. 139324, December 23, 1971. Coffee-pot.

Federation Internationale De Football Association, Hitzigwag 11, 8032 Zurich, Switzerland. 138938, August 26, 1971. Trophy.

Geep Flashlight Industries Limited, 28, South Road, Allahabad-1, U.P. 139931, May 31, 1972. A pocket type torch. 139932, May 31, 1972. A torch. 140009, July 5, 1972. A torch.

General Equip Mart (India), D-3, Industrial Estate, Aligarh, Uttar Pradesh. 138757, June 22, 1971. Punching machine.

Grehpal Singh Walia, Sector IX 235, R.K. Puram, New Delhi-22, India. 139593, March 1, 1972. Electric bulb.

Gurdit Singh and Lal Singh, 4-2, Azad Road, Nauchandi Meerut City (U.P.). 138905, August 16, 1971. A gas regulator.

Harish Chand Bagla, 995/124, Kailash Nagar Street No. 6, Delhi-31. 138898, August 12, 1971. Handle.

Hind Engineering Works (an Indian Proprietory Firm), J. K. Industrial Estate, Building No. 3, 1st Floor, Unit 98, 35/43, Musa Killedar Street, Jacob Circle, Bombay-11, (Maharashtra). 139295, December 15, 1971. Toys. 139296, December 15, 1971. Gyroscope.

Hindustan Vacuum Glass Limited, (A Company incorporated under the Indian Companies Act), Faridabad (Haryana) India. 139024, September 14, 1971. Vacuum flask.

Haji Abdul Majid (An Indian National) Idgah Road, Moradabad, Uttar Pradesh. 139057, February 7, 1972. Gas Lamp. 139506 and 139508 February 7, 1972. Portable Gas Stove.

Inder Optical Industries, Inside Gilwali Gate, Amritsar, Punjab, an Indian Partnership firm. 139657 and 139658, March 17, 1972. Spectacle frame.

Inder Sain trading as Aggarwal Metal Industries Kala Am. Bulandsher (U.P.), (India). 139840 and 139841, April 28, 1972. A hand pump.

India Automobiles (1960) Ltd., 12, Govt. Place East, Calcutta-1, West Bengal, India. 138932, August 25, 1971. Motor cars.

Indira Kotval, Smt. South, Apsara, 61B, Pali Hill Bandra, Bombay-50, Maharashtra. 139413, January 10, 1972. Scale for weighing.

Industrial Medical Engineers, 101, Daryaganj, Delhi-6, an Indian Partnership firm registered under the Indian Partnership Act, 1932. 139805, April 24, 1972. Rotameter.

Ishwarlal Liladhar Mehta, 34 II Floor, 8, Khetwadi 4th Lane, Bombay 4, BR, Maharashtra, India. 139124, November 1, 1971. A multipurpose stand for flowers. candle and agarbattis.

Jagdish Chandra Chawla, 1200 Bahadurgarh Road, Delhi. 139850, May 3, 1972. Exhaust fan.

J. M. & Company, P.O. Chandi, District 24-Parganas, West Bengal, India. 139655, March 16, 1972. Measuring pot for drinks.

Jamil Ahmad, 1404, Haveli Kallu Khawas, Chitli Qabar, Jama Masjid, Delhi-6. 138725 and 138726, May 31, 1971. Lighter.

Jatindra Nath Roy, Vill.—Barisal Colony (Beliadanga), P.O. Chakdaha, Dist.—Nadia, West Bengal, India. 139556, February 15, 1972. Rotary Engines.

Joginder Pal, 62/12 Jawahar Nagar, Ludhiana-2, Punjab. 139661, March 21, 1972. Electric press.

J. T. Jagtiani (an Indian Proprietory firm), National House, 6, Tulloch Road, Apollo Bunder, Bombay-1, (Maharashtra). 139397, January 3, 1972. Stirrer.

Jyoti Industries City Station Road, Raipur (M.P.). 140270, September 23, 1972. Hand Fan.

Jyoti Industries, Cama Lane, Karol Road, Kamal Kuni, Ghatkopar, Bombay 86 and Indian firm registered under the Indian Partnership Act, 139615, March 6, 1972, Stapling machines.

Jyoti Manufacturing Co., Hanuman Bhagda, Dist. Bulsar, State of Gujarat. 138867, July 29, 1971. Stapler. 139380, December 31, 1971. Stapler.

Kamani Engineering Corporation Limited, Kamani Chambers, Nicol Road, Ballard Estate, Bombay-1, State of Maharashtra, India, Nos. 138883 and 138884, August 5, 1971. An electric pole.

Kamlabai Narayan Rashinkar, (Mrs.). 498, Shanwar Peth, Mehunpura, Poona-30, Maharashtra State, India, No. 139085, October 11, 1971, Locking device for fuel tank. No. 139400, January 3, 1972, Locking device for telephone dial.

Khajinder Singh, 5413-New Gandhi Market, Sadar Bazar, Delhi-6, India, Nos. 139092 and 139093, October 19, 1971. A set-square.

Khira Industries Private Ltd., Naroda (West) Ahmedabad, State of Gujarat, India, No. 139359, December 27, 1971. Container.

Kisan Krishi Yantra Udyog, 64, Moti Bhawan, Collector Gani Kanpur (U.P.), No. 138719, May 28, 1971. Paddy dehusking device.

K. S. Industries, an Indian partnership firm at 3rd Bhoiwada, Moto Bihari Baug, Bombay-2, Maharashtra, No. 139568, February 17, 1972. Locking device.

Kum Kum Engg. Works, District Garden Road, Bapunagar, Rajkot-2, (Gujarat), Indian partnership concern, No. 139433, January 12, 1972. Flush cock for sanitary fittings. No. 139434, January 12, 1972. Push cock for sanitary fittings.

Lab Equipments Private Limited, (a private limited company registered under the Indian Companies Act), Dhan Nur 4th floor, Sir P. M. Road, Bombay-1, (Maharashtra), No. 139438, January 15, 1972. Mixing apparatus.

Laxman Govind Arondekar, Kennedy Bridge, Petet Compound, Bombay-7, State of Maharashtra, India, No. 139158, November 12, 1971. A photographic instrument.

Madan Lal Saria, 13, India Exchange Place, Calcutta-1, West Bengal, India, No. 139035, September 21, 1971. Bobbin holder.

Madhuri Mathur, (Mrs.), Proprietrix: Power Control & Appliances Co., F. 11, Industrial Estate, Madras-58, and also at No. 41, Gala Industrial Estate, Mulund, Bombay-80, No. 139727, April 5, 1972. A Metal Jar.

Madhusudan Dattusa Katve, 1731/35 'B' Ward, Joshirao Bag Kolhapur, Maharashtra State, India, No. 139660, March 18, 1972. The disc of "Chakli Patra" (An appliance for preparing snacks).

Manbir Singh Khurana, 162/B/280, Lake Garden, Calcutta-45, West Bengal, India, No. 138956, September 2, 1971. Sewing machine. 139091, October 16, 1971. Sewing machine.

Mangat Lal Malhotra, 16 Hill Park, Malabar Hill, Bombay-6, Maharashtra, India, No. 138887, August 10, 1971. Cigarette cases.

Maruti Sadashiv Adsul Indian National, 39, Guruwar Peth, Poona City, Maharashtra, India, No. 139571, February 18, 1972. Kitchen appliance.

Massey-Ferguson Inc., 12601, Southfield Road, Detroit, Michigan, U.S.A., No. 139121, October 29, 1971. Tractor body.

Mathuradas Harilal Harsora, The Proprietor of M/s. Harsora Brothers of Dr. Hakim's Wadi, Near Super Cinema, Grant Road, Bombay-7, Maharashtra State, No. 138978, September 6, 1971. Chairs.

Metal & Arts, 59, Lattice Bidge Road, Tiruvanmiyur, Madras-41, an Indian Partnership Concern, No. 139764, April 10, 1972. A jar. 139765, April 10, 1972. A tea pot. 139766, April 10, 1972. A water jug. 139767, April 10, 1972. A jar. No. 139790, April 20, 1972. A water jug. No. 139791, April 20, 1972. A milk bucket.

Michael Howard Woodward, of 3 The Coopice, Handsworth Woof, Birmingham 20, in the County of Warwick England, No. 138937, August 26, 1971. A device for connecting tubular members.

M. G. Industries, 248, A to Z Industrial Estate, Ferguson Road, Lower Parel, Bombay-13, Maharashtra, India, Nos. 139043 and 139044, September 21, 1971. A trolley-cum-push cart.

Mistry Bros., an Indian Partnership firm duly registered under the Indian Partnership Act, 338, Sardar Vallabhbhai Patel Road, Munchharam Building, Bombay-4, State of Maharashtra, India, No. 138998, September 13, 1971. A chair, 139028 September 17, 1971, A chair. 139630 and 139631, March 8, 1972, A chair.

Mohd. Shafiq, 874 Haveli Adma Khan, Bazar Chitli Qabar, Delhi, No. 138973, September 3, 1971. Rear View Mirror.

Mouji Lal Sons and Company, 46/134-135, Badshahi Naka, Kanpur, Uttar Pradesh, No. 138758, June 22, 1971. Aluminium and metal alloy slab.

Murli Enterprises, 36, Park Road, Vile Parle (East), Bombay-57, Maharashtra, No. 138910, August 20, 1971, Foldable-cartrays.

Naba Kumar Routh, 78, Netaji Subhash Road, Calcutta-7, West Bengal, India, No. 139133, November 4, 1971. Chapatti making machine 139587, March 1, 1972 139632, March 8, 1972, Baking pan.

Nand Kishore Khanna & Sons, an Indian partnership firm duly registered under the Indian partnership Act, at Arun Chambers, 1st Floor, Opposite Walchand Terrace, Tardeo Road, Bombay-34, State of Maharashtra, India, No. 139448, January 19, 1972. An air refreshner device.

Nanda Krishna Dutta, Swami Vivekananda Road, Birati, Calcutta-51, State of West Bengal, India, No. 138807, July 4, 1971. Fluid pressure indicators.

Naresh Bros., 2, Manohar Hardware Market, Hauz Kazi, Delhi-6, No. 139667 and 139668, March 22, 1972. Latch bolt.

National Institute of Design, A registered Society of Paldi, Ahmedabad-7, Gujarat State, India 139735 and 139736, April 6, 1972. Chair.

Necchi Societa per Azioni, an Italian Company, of via Fismonda 78 Pavia, Italy, No. 138849, July 23, 1971. A sewing machine.

Norton & Co., 1-16, Baker Thirovengada Mudali Street, Choolai, Madras-7, No. 139541, February 14, 1972, Type Founts.

N. V. Philips' Gloeilampenfabrieken, Emmasingel 29, Eindhoven, The Netherlands, No. 138957, June 18, 1971 (U.K.). A dry shaver.

Pali Bhavanishanker Adyanthaya, 7, Bindra Niwas, 83, J. P. Road, Andheri West Bombay-58 (AS), State of Maharashtra, India, No. 139505, February 7, 1972. Heat stand.

Philips India Limited, Shivsagar Estate, Block "A" Dr. Annie Besant Road, Worli, Bombay-18, (W.B.), Maharashtra State, India, 139924, May 27, 1972. A decorative pendent light fitting. 139925, May 27, 1972. A light track system. 139927, May 27, 1972. A table lamp. No. 139928, May 27, 1972. An adjustable wall bracket light-fitting.

Phoenix Distributors Private Ltd., an Indian company incorporated in India under the Indian Companies Act, 53/57 Laxmi Insurance Building, Sir P. M. Road, Fort, Bombay-1, State of Maharashtra, India, No. 139127, November 3, 1971. A bowl or receptacle for drinking purposes.

P. P. Products, 20-Agra Road, Khirni Gate, Aligarh, Uttar Pradesh, India, No. 139142, November 6, 1971. A door handle.

Prakash Type Foundry, 250-267, Narayan Peth, Poona-30, Bombay, Maharashtra, No. 139517, February 9, 1972. Printing types.

Pravin Dharashibhai Patel, Near Vikram Mills, Rakhian Road, Ahmedabad-21, Gujarat, No. 138979, September 6, 1971. Die holder.

Press Metal Corporation Private Limited, a company incorporated under the Companies Act, 1956 Morol Andheri Kurla Road, Bombay-59, State of Maharashtra, India, No. 138767, June 26, 1971. Radiator frontal grills for automobiles. 139967 to 139969, June 12, 1972. Slotted angles.

Qualitex Machinery Private Limited, 11/6-B, Pusa Road, New Delhi, No. 139139, November 5, 1971. Tool for cutting and cleaning weeds and the like.

Raj Chawla (An Indian Subject), 17/14, Shakti Nagar, Delhi, 139581 to 131585, February 28, 1972. Mirror.

Raja Mechanical Co., (P) Ltd., 33 Deputy Ganj, Delhi, An Indian Private Limited Company, No. 139288, December 13, 1971. Toy.

Rajaram Jairam Neogi, Anna Purna Niwas, Datta-Wadi, Mapsa, Goa, No. 139355, December 27, 1971. Lighting devices, (Dipastamp).

Rajen Industrial Corporation, 95/205, Dadasaheo Phalke Road, Dadar, Bombay-14, Maharashtra State, No. 139140, November 5, 1971. Head dryer. 140088, July 31, 1972. Domestic Grinders-cum-mixers.

Rawal Motors, 323/21, Madan Motor Market, Punja Sharif Kashmere Gate, Delhi-6, No. 138790, July 5, 1971. Radiator cap of automobiles.

Regal Clip Works, an Indian Partnership firm duly registered under the Indian partnership Act, 144, Chinbunder Road, No. 1, Khadak, Bombay-9, State of Maharashtra, India, No. 139126, November 3, 1971. A lock for suit cases, hand bags or the like. 139536, February 10, 1972 Handles, 139537, February 10, 1972, Locks. 140073, July 21, 1972. Hinges.

Rex Auto Products, 3060, Bahadurgarh Road, Delhi, Indian, Nos. 139681 and 139682, March 27, 1972. Mirror. 139757 to 139762, April 10, 1972. Mirror.

Rippon Berry, D-160, New Rajinder Nagar, Delhi-60, (India), No. 138977, September 6, 1971. A gantry crane.

Romesh Kumar, 2/80, Roop Nagar, Delhi-7, No. 139236, November 27, 1971. Gas welding device.

Roneo Vickers India Ltd., Roneo House, 184, Jor Bagh, New Delhi-3, India, Nos. 139222 to 139225, November 23, 1971. Slotted angle. No. 139466, January 28, 1972. A slotted angle.

Sachindra Bhikabhai Shah, 2nd Floor, 111 Lohar Chawl, Bombay-2, Maharashtra, India, No. 139563, February 17, 1972. A folding chair. 139564, February 17, 1972, A folding arm chair.

Sewa Singh, Sultanwind Road, Amritsar, Punjab, No. 139257, December 1, 1971, The basket for scooter.

Shine Star Industries, 50/17C-1, Gate No. 1, Industrial Area, New Rohtak Road, New Delhi-6, No. 139456, January 24, 1972. Stove.

Shree Madhusudan Textiles, A.P. Industrial Estate, Sukhram Nagar, Ahmedabad-21, Gujarat, No. 139477, January 31, 1972. Hydraulic jack.

Singer Company, The, 30, Rockfeller Plaza, New York, New York-10020, U.S.A. No. 140173, August 26, 1972. A fine gauge tufting machine hook.

Snowcem India Limited, A company incorporated under the Companies Act, 1956, at Killick House, Home Street, Bombay-1, State of Maharashtra, No. 138935, August 25, 1971. Containers.

S. P. Engineering Works, 178, Govindpuri Kankarkhera Meerut, Uttar Pradesh, Nos. 139237 and 139238, November 27, 1971. Gas welding device.

S. P. Engineering Works, 178, Govindpuri Kankarkhera Meerut, Uttar Pradesh, No. 139402, January 4, 1972. Gas welding sets.

Sri Venkateswara Industries, No. 56, Tiruvothiyur High Road, Madras-21, No. 139718, April 1, 1972. Mascots for vehicles-cum-paper weight.

Standard Tin Works, Udyog Mandir, Kurla-Andheri Road, Bombay-72 As. Maharashtra State, No. 139773, April 15, 1972, Sprayers.

Sunder & Kapoor (an Indian Proprietory firm), 107/108, Commerce House, Medows Street, Bombay-1, (Maharashtra), No. 139576, February 24, 1972. Cap for Automobile bulb.

Surinder Kumar Bajaj, Nav Jiwan Cottage Industries, 5661, Nabi Karim, New Delhi, No. 138728, May 31, 1971. Table call bell.

Swadesi Type Foundry, 51, Guruvappa Chetty Street, Chindadripet, Madras-2, Nos. 139230 and 139231, November 25, 1971. Tamil Printing types.

Swan Handicrafts and Industrial Project, 65-66, Gandhi Gate, Amritsar (India), No. 139256, December 1, 1971. A tatting-shuttle.

Swaranjit Singh, C-505, Defence Colony, New Delhi, India. No. 139511, February 8, 1972. Rail fastener.

Swarn Kanta, wife of Shri Vijay Kumar Bassi, Bassi Cottage, Lajpat Rai Road, Hoshiarpur, Punjab State, No. 139063, October 1, 1971. Valve.

Swissar Sales Corporation, Chaudhary Compound, Bulasrotes Colony, Standard Battery Road, Vakola Bridge, Santacruz (East) Bombay-55, (Maharashtra), No. 138941, September 1, 1971. Buckle.

Tarulata Natvarlal Shah, (Smt.) an Indian, Byculla, Love Lane, Probhatwadi, Bombay-27, Maharashtra, No. 139575, February 23, 1972. Tiffin carrier frame.

Textron Inc., 40, Westminster Street, Providence, Rhode Island, United States of America, No. 139807, April 26, 1972. An aeroplane.

Tiger Products Private Ltd., Marris Road, Aligarh (U.P.) Nos. 138854 to 138856, July 27, 1971. A bib cock. 139512, February 9, 1972. A water tap 139513 to 139516, February 9, 1972. A knob.

Toshniwal Instruments and Engineering Co., 3E/8, Jhandewalan Extension, New Delhi, and Indian Partnership concern, No. 139473, January 31, 1972. Moisture determining apparatus. 139474, January 31, 1972. Polarimeter. 139475 and 139476, January 31, 1972. Refractomter.

Trippakkal Sekharan Ananth Ghosh, 11/166 Sardar Nagar, No. 4, Sionkoliwada, Bombay-22, Maharashtra State, India, No. 138922, August 23, 1971. Electric paper folding machine.

Tripti Kumar Roy Chowdhury, 4, Garfa 3rd Lane, Calcutta-32, West Bengal, India, No. 138997, September 10, 1971. Angle bracket.

Two Dimonds Appliances Pvt. Ltd., a company incorporated under the Indian Companies Act, 1956 and carrying on business at Janta Industries Compound, Opposite Phoenix Mills, Tulsi Pipe Road, (South), Bombay-13, Maharashtra, India, No. 139535, February 10, 1972. Containers.

Union Carbide India Limited, 1, Middleton Street, Calcutta-16 West Bengal, India, No. 138789, July 3, 1971. A flashlight.

Union Carbide India Limited, 1, Middleton Street, Calcutta-16, West Bengal, India, Nos. 139351 and 139353, December 24, 1971. Flashlight. 139471, January 29, 1972, Flashlight.

Usha Puri. (Mrs.)., Zaver Mahal, 1st Floor, A-4, 66 Marine Drive, Bombay-20, Maharashtra, No. 139664, March 21, 1972, Containers.

V. Balakrishnan, No. 1, V. B. New Lane, Kottur, Adyar, Madras-25, Subject of the Indian Republic, No. 139598, March 3, 1972. A transistor.

Vachala Engineering Co., 26, No. 2, Pillaiar Kovil Street, Gugai, Salem 6, Tamilnadu, No. 139659, March 17, 1972. A grinding machine.

Vanaz Engineers Private Limited, Incorporated in India, 396 Veer Savarkar Marg, Prabhadevi, City of Bombay, State of Maharashtra, India, No. 140021, July 7, 1972. Valves.

Veil Home Products Co., 46-Naiwala, Karol Bagh, New Delhi-5, No. 139168, November 18, 1971. Cloth drier.

Weld-India, 74, Sewri Fort Road, Bombay-15, Maharashtra, India, No. 139073, October 4, 1971. A can-opener. 139074, October, 4 1971. An Ice crusher cum-cork opener.

Welset Engineers, An Indian Partnership Firm having its Office at: Mantri Wadi, S. V. Road Malad West, Bombay-64 (NB) Maharashtra, India, No. 139465, January 25, 1972. A clutch plate.

Yogendra Products, 12, Mishri Lal Market, P.O. Aligarh (U.P.) No. 139169, November 18, 1971. Hasp.

Class 2.—Books and bookbinding of all materials.

Nil.

Class 3.—Articles composed wholly of India-rubber, wood, bone, ivory papier mache, celluloid, bakelite or like substances or of materials in which such substances predominate (except articles included in Class 10).

Adgifts India, 3/23, Kamal Mansion, Authur Bunder Road, Colaba, Bombay-5, (Maharashtra). 139907, May 18, 1972. Ash tray.

Ajit Enterprises, 67, Pathak Wadi, Lohar Chawl, Bombay-2, Maharashtra. 139803, April 22, 1972. A seat.

Alimahomed Chhaganbhai Padamsee, 141 Sheriff Devji (Chuckla) Street, City of Bombay, State of Maharashtra, India. 138852, July 27, 1971 Flasks. 139651. March 15, 1972 Flasks 140022, July 7, 1972. Cups. 140053. July 15, 1972. Flasks

Ameya Chowdhury, 6/4A Wards Institution Street, Calcutta 6, West Bengal. 139398, January 3, 1972. Musical instrument (piano).

Anglo-French Drug Company (Eastern) Ltd., The, 28, Tardeo Road, Bombay-34-WB. Maharashtra. 139123, November 1, 1971. Cap.

Anil Plastics, Plot No. 146(A), Pendse Nagar, Dombivli, (East), District Thana, Maharashtra, India. 138907, August 16, 1971. Container.

Anthony Mathias Dias, 650, Girgaum Road, 1st Floor, Sharaff Manzil. Dhobi Talao, Bombay-2, State of Maharashtra. 139286, December 13, 1971. Fuel filters.

Anwar Akbarally Amani, 3B. Asha Colony, Juhu Beach, City of Bombay, State of Maharashtra, India. 139540, February 11, 1972. Electric torch.

Arvind Plastic Industries, 5 Ganko Industrial Estate, 2nd Floor, Room No. 17, Ram Chandra Lane, Malad (West), Bombay-64, Maharashtra. 139534, February 10, 1972. Soap stand.

Asian Advertisers, 20 Kala Bhavan, 4th Floor, 3, Mathew Road. Opera-House, Bombay-4, (Maharashtra). 138862, July 28, 1971. Wall calendar. 138863, July 28, 1971. Wall calendar frame. 138864, July 28, 1971. Paper weight. 138994, September 10, 1971. Ash-tray. 139135, November 5, 1971. Pen stand with pen. 139842, April 28, 1972. Papercutter. 139843, April 28, 1972. Ball point pen-cum scale. 140197, August 30, 1972. Paper weight. 140198, August 30, 1972. Ball pen.

Aurobrite (India) Private Ltd., 408, Himalaya House, Palton Road, Bombay-1, Maharashtra State, India. 139111, October 27, 1971. A clothes hanger. 139263, December 4, 1971. A clothes hanger. 140135, August 10. 1972. A bangle.

Aurora Model Manufacturing Company Private Limited, 15, Shakespeare Sarani, Calcutta-16, State of West Bengal, India. 139597, March 3, 1972. Control handle for model aircraft.

Avon Plastice Corporation, Modi Nagar Road, Hapur, District Meerut, Uttar Pradesh. 139025, September 15, 1971. Cord (Dori).

Babuji Shilpi, 'Anita'. Flat No. 62, Mount Pleasant Road, Bombay-6. Maharashtra, India. 138782, June 30, 1971. Plaque. 139041. September 21, 1971. A Swing 139098, October 20, 1971. A swing 139099, October 20. 1971. Toy cart. 139100, October 20, 1971. A rocking toy horse.

Bahco Taparia Tools Limited, 20. Old Custom House Road, Silverstor Building Bombay-1, (Maharashtra). 139847, April 28, 1972. Handle for tools.

Baji Nariman Maloo, 20, Gandhi Mansion, Altamount Road, Bombay-26, Maharashtra, India. 138959, September 2, 1971. Lighter-cum-ball pen. 138960, September 2, 1971. Lighter-cum-ball pen with cap.

Baldev Raj Grover and Brij Mohan Grover, 7847/14, Nai Basti, Bara Hindu Rao, Delhi-6. 139096 and 139097, October 20, 1971. Optical frames. 140018, July 6, 1972. Optical frames.

Balsara Hygiene Products, 43, Medows Street, Fort, Bombay-1, State of Maharashtra, India. 139644, March 13, 1972. A container.

Basant Pran & Co., 9, Old Court House Street, Calcutta-1, West Bengal, India. 139027, September 16, 1971. Switch Fuse.

Bata Shoe Company Private Limited, 30, Shakespeare Sarani in the town of Calcutta, West Bengal. 139053 and 139054, September 25, 1971. A sole for footwear. 139153, November 11, 1971. A sole for footwear. 139407, January 6, 1972. Sole for footwear. 139558, February 15, 1972. A sole for footwear. 139707, March 30, 1972. A sole for footwear. 139770 ,April 12, 1972. A sole for footwear. 139951. June 7, 1972. A strap for a sandal.

Beecham (India) Private Limited, Beecham House, Mahim, Bombay-16, Maharashtra. 139070, October 4, 1971. Toothbrush handles.

Bhagwan Naraindas Chotirmal, Ivanhoe, General Bhonsle Marg, Bombay-1, State of Maharashtra, June. 140067, July 20, 1972. The sole of a footwear.

Bharat Kumar Narsidas Kachwala, 35, B. Rajwadi Chawl, Jambli Gali, S. V. Road, Borivli (West), Bombay-92NB, Maharashtra. 138989, September 7, 1971. Container.

Bhawandas Tahilram Daney, 166-168, Lohar Chawl, Bombay-2, Maharashtra, India. 139778, April 15, 1972. A curtain rail assembly.

B. K. Plastics Private Limited, A207 Defence Colony, New Delhi-3, India. 139149, November 10, 1971. Cup. 139849, May 2, 1972. Tray.

Bishan Sarup, 4648, Sedhu Mal Building, 21, Daryaganj, Delhi-6. 139065 and 139066, October 1, 1971. Display device.

Bombay Forgings Private Ltd., Wavell House, Graham Road, Bombay-1, State of Maharashtra, India. 139848, May 1, 1972. A tooth brush-cum-container. 139917, May 24, 1972. A tooth brush. 139939, June 3, 1972. A denture brush. 139809, April 27, 1972. Tooth brush. 139972, June 14, 1972. A container or cover for a toothbrush. 139973. June 14, 1972 a container or cover for a toothbrush 139981. June 19, 1972. A tooth brush. 0071, July 20. 1972. A package for a toothbrush.

Bombay Trading Corporation, T. T. Blades Bldg., 9A, Saki Naka, Bombay-72, (Maharashtra). 138805, July 13, 1971. Tooth Brush. 138806, July 13, 1971. Handle of Tooth Brush.

Brahma Bharati Udyog, 259, Kalbadevi Road, Johari Mansion, 5th Floor, Bombay-2, Maharashtra, India. 139253, November 29, 1971. A mug. 139422. December 21, 1971. Photo frame-cum-container. 139495, February 2, 1972. Container (BBasket). 139502. February 5, 1972. Fruit Tray. 139503. February 5, 1972. Tiffin carrier. 139613. March 6. 1972. Tiffin carrier.

British Bata Shoe Company Limited, East Tilbury, Essex, England. 139792. October 22. 1971, (U.K.). A sole for footwear.

Calcutta Footwear Company. 40. Strand Road. Room No. 18 4th Floor. Calcutta-1. West Bengal. 138969, September 3, 1971. Footwear.

Camlin Private Limited, Kurla Andheri Road, J. B. Nagar, Bombay-59, A. S. Maharashtra. 139118 to 139120, October 29, 1971. Bottle. 139550 to 139552, February 14, 1972. Bottle with cap. 139590 to 139592, March 1, 1972. Flexible container.

Caprihans (India) Private Limited, Shivsagar Estate, Block D, Dr. Annie Besant Road, Worli Bombay-18, State of Maharashtra, India. 139674 to 139679, March 25, 1972. Decorative laminated plastic sheets. 139866 to 139875, May 9, 1972. Decorative laminated plastic sheets.

Captain Industries, 10495/C, Baghichi, Shankar, Multani, Dhanda, New Delhi-55, India. 139504, February 7, 1972. A safety razor.

Chackachamparambil Lonappan George, 121/3448 Pantnagar, Bombay-75, Maharashtra, India. 138909, August 18, 1971. A baby walker device.

Chandrakant Somabhai Patel, 19, Sampatrao Colony, Baroda 5, Gujarath, India. 140203, September 4, 1972. Container. 140204, September 4, 1972. Closure.

Christine Hoden (India) Pvt. Ltd., Salgaocar Bldg., Vasco da Gama, Goa Union Territory Goa. 138824, July 19, 1971. Wrappers.

C. J. Industries (I.NL), Hampton Court, Wodehouse Road, Bombay-5, Maharashtra State, India. 139642, March 13, 1972. A handle bar grip.

Cosmos Plastics, 42, Mani Bhuvan, 3rd Floor, Pathakwadi Lohar Chawl, Bombay-2, Maharashtra State. 139709, March 30, 1972. Handle of umbrella.

Covent-Cosmetics (Private) Limited, at 1/207-D, Vasudeva Sadan, Dr. Ambedkar Road, Bombay-19. 139635, March 10, 1972. Handle for shaving brush.

Darius Jehangir Lawyer, 54A, Meher Aparments Anstey Road off Altamount Road, Bombay-26, State of Maharashtra, India. 139260, December 3, 1971. A dispensing can.

Darshan Lal, 72, G. B. Road, Delhi-6. 139555, February 14, 1972. Container.

Deekay International, 206, A-Z Industrial Estate, Ferguson Road, Lower Parel, Bombay 13, (Maharashtra). 139106, October 25, 1971. Handle

Delhi Cloth & General Mills Co., Ltd., The. Bara Hindu Rao, Delhi-6, India. 139141. November 6, 1971. A container.

Devas Plastic. 113, Dhanji Street. Bombay-3, (Maharashtra). 138775, June 29, 1971. Colander with lid. 139311, December 18. 1971. Colander. 139404. January 5. 1972. Colander. 139458. January 24. 1972. Colander-cum-rice strainer.

Dr. Writer's Chocolate & Canning Co., Bhavanishanker Road, Dadar. Bombay-28. Maharashtra State. India. 138929, August 25, 1971. Plastic bottles.

Dunlop Holdings Limited, a British Company, Dunlop House, Ryder Street. St. James's London S.W. 1., England. 138645, October 29, 1970. (U.K.). A Convertible bed-settee. 138646. October 29. 1970 (U.K.). A Convertible bed-bench.

Dunlop Limited, a British Company, Fort Dunlop, Erdington, Birmingham 24, England 138822, January 21, 1971. (U.K.). Tyre for a vehicle wheel. 138881, February 8, 1971 (U.K.). A tyre for a vehicle wheel. 139047. March 29, 1971 (U.K.). A footwear sole. 139075, April 7, 1971, (U.K.). Tyre for a vehicle wheel. 139637, 139638 and 139639, September 15, 1971 (U.K.). Tyre for a vehicle wheel. 139640 and 139641, September 25, 1971 (U.K.). Tyre for a vehicle wheel. 139887, November 18, 1971, (U.K.). A tyre for a vehicle wheel. 140240, March 24, 1972, (U.K.) Tyre for a vehicle wheel.

Dynamic Plastic Private Limited, Hirabaug, Tejpal Road, Vile Parel (East), City of Bombay, State of Maharashtra, India. 139160, November 15, 1971. Dice.

Electronics Corporation of India Limited, Industrial Development Area, Cherlapalli, Hyderabad-40, State of Andhra Pradesh, India. 139839, April 28, 1972. Television set.

Estrela Batteries Limited, Plot No. 1, Dharavi Post Bag, No. 6602, Matunga, Bombay-19, Maharashtra State, India. 139755, April 10, 1972. A tray.

Excelsior Trading Co., Post Box No. 5A 221/25. P. D'Mellow Road, Fort, Bombay-1, (Maharashtra State). 139961, June 12, 1972, Coat hanger.

Fernand Deryk, 7, rue Basse Neuville, 5000 Namur, Belgium, 138732, June 2, 1971. Building elements in the form of a canopy.

Figurette Equipment Co., Private Limited, Dugal House, Back Bay Reclamation, Bombay-20, Maharashtra, India. 139768, April 11, 1972. Steam generator.

Fona East Corporation, 35A, B. L. Saha Road, New Alipur. Calcutta-53. 139771, April 12, 1972. Micro-Cellular rubber sheets.

Frederick Herbert, 10 2nd Pasta Lane, Colaba, Bombay-5 (Maharashtra). 139417, January 10, 1972. Electric fountain.

Ferrodie Limited. Roxy Chambers, New Queens Road, Bombay-4, Maharashtra. 139148, November 10, 1971. Bowl.

Forms. Green House, 3rd Floor, Green Street, Fort, Bombay-1, (Maharashtra). 139457, January 24, 1972. Pen with penstand.

Geep Flashlight Industries Limited, 28, Sough Road, Allahabad-1, U.P., India. 138876, August 3, 1971. A torch. 139933, May 31, 1972. A torch base. 139934 to 139936, May 31, 1972. A headring of a torch.

Geoffrey Manners & Company Limited. Magnet House, Narottam Morarjee Marg, Ballard Estate, Bombay-1, State of Maharashtra, India. 138684 and 138685, May 15, 1971. Bottles. 138733, June 2, 1971. Bottles. 139756, April 10, 1972. Tooth brush.

Glolite Electricals, Champsi Bhimji Road, Mazgaon, Bombay-10, State of Maharashtra, India. 139596, March 3, 1972. A plastic light lamp.

Gobindram Lalchand Gangaramani, 25-Ameen Manzil. 155-Lady Jamshedji Road, Mahim, Bombay-16 (Maharashtra). 139974, June 15, 1972. Pen stands-cum-calendar.

Graft-un Limited. an Irish Company, 60 Fitzwilliam Square, Dublin 2, Ireland. 139470, January 28, 1972. A buffet tray.

Hans Staeger, D-7024 Bernhausen Talstrasse 84, West Germany-and Manfred Malzacher, D-7021 Stetten, Obere Garten 31, West Germany. German Nationals 140152 and 140153, August 14, 1972. Connecting elements.

Hindustan General Electrical Corporation Limited, Thapar House, 25, Brabourne Road, Calcutta-1, West Bengal, India. 138955, September 2, 1971. Fuse Bridge Base. 138961, September 2, 1971. Fuse bridge cover. 138962, September 2, 1971. Fuse Bridge.

Homi Rustomji Vakil, Flat No. 27, Maison Belvedere, 107, Maharshi Karve Road, Bombay, State of Maharashtra, India. 139167, November 18, 1971. An electric torch.

Ideal Cottage Industry, Chand Pole Bazar, Jaipur, Rajasthan. 139072. October 4, 1971. Rubber stamp.

Indecor Laminates Private Limited, B 45-46 Industrial Estate, Sanatnagar, Hyderabad-18, State of Andhra Pradesh, India. 139235, November 26, 1971. Decorative laminates. 139722, April 3, 1972. Decorative laminates.

Industrial Components, 135-A, Canning Street, Calcutta-1, West Bengal, India. 139905, May 18, 1972. Helmet.

Jayshree Plastics Private Limited, 33, Burtolla Street, Calcutta-7, West Bengal, India. 139440, January 17, 1972. A dispenser for powdery materials. 139808, April 27, 1972. Plate made of plastic. 139851, May 3, 1972. Plate made of plastic.

Jehangir Cursetjee, Dady Cursetjee, (Mrs.) Bobby Dady Cursetjee and Gaye Cursetjee of Fibreglass Reinforced Plastics, 33, Church Street, Bangalore-1, Mysore State, India. 138950, September 1, 1971. Helmets.

J. K. Helene Curtis Limited, J. K. Building, Dougall Road, Ballard Estate, Bombay-1, State of Maharashtra, India. 139252, November 29, 1971. A bottle. 139352, November 29, 1971. A bottle.

Juharmal Khetasides, Shriniwas Agrawal and Bajranglal Juharmal, trading in partnership as Juharmal Shriniwas, Jai Hind Building 3A, Bhuleshwar, Bombay-2, State of Maharashtra, India. 139977, June 17, 1972. The sole of a footwear.

Kalpana Industries, 405, Byculla Industrial Estate, Sussex Road, Near Victoria Garden, Bombay-27, Maharashtra. 140039 and 140040, July 15, 1972. Pen. 138819, July 19, 1971. Ash-tray-cum flower pot.

Kantagauri Ratilal Bhagat, (Mrs.), 6th Floor, Santa Cruz West, Bombay-54. Maharashtra, India. 139254, November 29, 1971. A bottle.

Kapson Plastics, Plot No. 4, Hathi Khana, Bahadurgarh Road, Delhi, 138720, May 28, 1971. Calender-cum-ball point pen with paper knife.

Khanna & Sons, 95, Swadeshi Market, Sadar Bazar, Delhi-6. 139802, April 22, 1972. Toys.

Kemp & Company Limited. 88C Old Prabhadevi Road, City of Bombay State of Maharash'ra, India. 140023, July 7, 1972. Bottles.

Kooverji Devshi & Co., Pvt. Ltd., Arun Chambers, Tardeo Road, Bombay, State of Maharashtra, India. 139544, February 14, 1972. A cap for a device for extinguishing fire. 140094, August 2, 1972. A cap for a device for extinguishing fire.

Kosmetika Private Limited, Sorab House, 524, Senapati Bapat Marg, Dadar, Bombay-28 DD, Maharashtra. 139186, 139190 and 139192 to 139196, November 19, 1971. Toys. 139215 to 139217 139219 and 139221, November 23, 1971. Toys. 139325 to 139332 and 139334 to 139350. December 23, 1971. Toys. 140042 to 140045, July 10, 1972. Toys.

Krishna Chandra Dutta (Spice) Pvt. Ltd., 235, Maharshi Debendra Road, Calcutta-7, West Bengal, India. 139379, December 30, 1971. Containers.

Lombards Private Limited, Rahimtoola House, Homji Street, Bombay-1, Maharashtra State. 139115, October 28, 1971. Bottles with cap. 139129, November 3, 1971. Bottles

Madan Lal Saria, 13, Indian Exchange Place, Calcutta-1, West Bengal, India. 139013, September 14, 1971. Hair cutter. 139036, September 21, 1971. Bobbin holder.

Magdaline Pinto, (Mrs.), 22, Gome's Building, 2nd Floor, 4th Road, Santacruz (East), Bombay-55 (AS), State of Maharashtra, India. 139733, April 5, 1972. A container made from high density polythene.

Manbir Singh Khurana, 162/B/280, Lake Garden, Calcutta-45, West Bengal, India. 139138, November 5, 1971. Sewing machine.

Manohar Bhajandas Ahuja, A-101, Sky Scraper, Bhulabhai Desai Road, Bombay-26, Maharashtra State. 139395, January 3, 1972. Torch. 139396, January 3, 1972. Coin box. 139906, May 18, 1972. Container-cum-Yo-Yo.

Metal Box Company Limited, The, 37, Baker Street, London, WIA IAN, England. 139769, October 23, 1971, (U.K.). A closure.

Minni Trading Corporation, 6, Fatch Nivas, Goraswadi, Malad, Bombay-64, Maharashtra. 139437, January 15, 1972. Decanter with cap. 139577, February 24, 1972. Decanter.

Mona Toys Industries, D-34, Rajouri Garden, New Delhi-15, 140027 to 140037, July 10, 1972. A toy made of polyvinyl chloride.

Murli Enterprises, 26, Park Road, Vile Parle (East), Bombay-57, Maharashtra State. 138911, August 20, 1971. Foldable Cartray.

Murphy India Limited, Dr. Shirodkar Road, Opposite Hospital Avenue, Parel, Bombay-12 (DD), State of Maharashtra. 139067 to 139069, October 1, 1971. Transistor case cum radio cabinet. 139087, October 14, 1971. Transistor cases cum radio cabinets. 139165, November 17, 1971. An amplifier cabinet. 139408, January 7, 1972. Transistor-cum-radio cabinets. 139883 and 139884, May 11, 1972. An amplifier. 139885, May 11, 1972. A tuner. 139886, May 11, 1972. A record-player-cum-amplifier. 139984, June 22, 1972. A radio-cum-transistor cabinet.

Murshedali Khan, 516, Khambatia Building, Room No. 14, 2nd Floor, Victoria Garden Road, Corner of J. J. Hospital, Bombay-8, Maharashtra, India. 139795, April 22, 1972. A closure-cum-spray nozzle. 139796, April 22, 1972. A spray nozzle. 139852, May 4, 1972. A spray nozzle.

Myadam Narsing Rao, Ganesh Ink Industries, Industrial Estate, D-2, Karimnagar (Andhra Pradesh). 140252, September 18, 1972. Ink Bottles.

Nait Ram of New India Electricals, Grain Market. Patial Punjab. 139478, January 31, 1972. Plastic joint box.

Narindar S. Uberoi & Bros., National House, Tulloch Roa Apollo Bunder, Bombay-1, Maharashtra State, India. 13964 March 14, 1972. A hand-operated brush.

Nasrulla Abdeally Nasrulla, Rehan Abad Building, 4 Floor, Block No. 18, Spence Road, Byculla Bridge, City Bombay, State of Maharashtra, India. 139258, December 1971. Glow lamp.

National Plastic Industries, Taher Bldg., 1st Floor, 8 Sarang Street, Bombay-3, (Maharashtra). 139076, October 1971. Tepoy (table). 139282, December 8, 1971. Drum wi tap and lid. 139293, December 13, 1971. Flower stand. 13961 March 6, 1972. Dust pan. 140132, August 10, 1972. Shoppir bag.

Navbharat Radio Agencies, 350, Lamington Road, ne Police Station, Bombay-7, (Maharashtra State). 13996 June 12, 1972. Transistor radio cabinet.

New Way Packaged Products Limited, a British Compan 1, Brumwill Road, Ealing, London, W. S., England. 13926 December 4, 1971. Container.

Nilkamal Plastic & Allied Industries, Off Saki Vihar Roa Opp. John Baker, Pawai, Bombay-70, (Maharashtra). 13905 October 1, 1971. Shopping bag. 139281, December 8, 197 Water jug with lid. 139294, December 13, 1971. Drum wi lid. 139612, March 6, 1972. Shopping Bag.

N. V. Philips Gloeilampenfabriken, Emmasingel, 29, Ein hoven, The Netherlands. 138958, June 18, 1971 (U.K.). dry shaver.

Organic Chemical Industries, 62-L, Block, Connaught Ci cus, New Delhi-1. 139109, October 26, 1971. Rubber sheets.

Paramount Products, Block No. A/28, Second Floo Shriram Industrial Estate, G. D. Ambekar Road, Bombay-3 Maharashtra (India). 139469, January 28, 1972. Container 138870, August 2, 1971. A display stand.

Philips India Limited, Shivsagar Estate Block "A", D Annie Besant Road, Worli, Bombay-18 (WB), Maharasht State, India. 139962 and 139964, June 12, 1972. A decorativ incandescent light fitting. 139963, June 12, 1972. A decorativ pendant light fitting. 139965, June 12, 1972. A table lam 139966, June 12, 1972. An adjustable wall bracket ligh fitting.

Phiroze Sethna Industries of Royal Insurance Building, 1 Jamshedji Tata Road, Bombay-20, Maharashtra State. 12895 and 128953, September 1, 1971. Grips for scooter and mot cycle.

Pidilite Industries Pvt. Ltd., Mafatlal House, Backbay R clamation, Bombay-20, (Maharashtra). 139467, January 2 1972. Jars.

Plastall Plastic Industries, Subhash Nagar, Jogeshwari, Eas Bombay-60, Maharashtra. 139569, February 17, 1972. Bott with spoon. 139647, March 13, 1972. Folding Fan.

PMN & Company, 5/5A Grant's Building, Arthur Bunde Road, Colaba, Bombay-5 (Maharashtra). 138992, Septemb 10, 1971. Container for stitching accessories.

Polymold Products, 7A, Dhanraj Industrial Estate, Su Mill Road, Lower Parel (West). Bombay-13 BC, Maharas tra, India. 139156, November 11, 1971. A toy.

Premier Leather Krafts. The, 35, Hamam Street, Bombay-1, Maharashtra (India). 139788, April 20, 1972. Stopper openers.

Premier Rubber & Cable Industries, Savey Chambers, 5, Wallace Street, Fort, Bombay-1, State of Maharash'ra, India. 139315, December 18, 1971. A bicycle tyre. 139319 and 139321, December 20, 1971. Sheet material. 139880, May 10, 1972. A bicycle tyre.

Press Metal Corporation Private Limited, Parol, Andheri Kurla Road, Bombay-59, State of Maharashtra. India. 138768, June 26, 1971. Frontal grills for automobiles.

Ram Kishan Bajaj, F 38 South Extension Part I, New Delhi. 139978, June 19, 1972. Container.

Ram Gopal Bajaj, House No. 223/A, Gali No. 8, Padam Nagar, Kishan Ganj, Delhi-7, India. 139317, December 20, 1971. Water taps or cocks.

Ram Narain Kher, Residency Road, Nagpur. Madhya Pradesh, India. 139134, November 4, 1971. Air cooler.

Ram Sarup Kathuria, Katra and Manager of Joint Hindu family Mesrs Ram Sarup Kathuria & Sons, A/46 Kirti Nagar, New Delhi-15. 138879 and 138880, August 5, 1971. The sole of footwear.

Ram Shanker Bajoria, N-44, Panch Shila Colony, New Delhi-17, India. 138878, August 4, 1971. Plastic hanger.

Rameshchandra Kalidas Patel, 3 Garden Terrace, 11th Road, Santacruz (East), Bombay-55 (AS), State of Maharashtra 139971, June 12, 1972. A plastic tray.

Rajaram Jairam Neogi, Anna Purna Niwas, Dattawadi, Mapsa, Goa. 139358, December 27, 1971. Lighting devices (Dipastamb).

Rajpal Plastic Industries, 303, Neelkanth, 98, Marine Drive, Bombay-2, (Maharashtra). 139213, November 23, 1971. Brush. 139229, November 25, 1971. Brush. 139414, January 10, 1972. Brush. 139415, January 10, 1972. Liquid mixer. 139416. January 10, 1972. Container with stand for keeping salt and pepper.

Regal Industrial Corporation, Room No. 122, Bharat Industrial Estate, 1st Floor, Tokersi Jivraj Road. Sewri, Bombay-15 DD. Maharashtra. 139062, October 1, 1971. Handles.

Rex Auto Products. 3060-Bahadur Garh Road, Delhi. 139763. April 10, 1972. Mirror.

Rooplex Industries. 139, Ghodbunder Road, Agrawal Industrial Estate, Mogeshwari. West, Bombay-60, Maharashtra. 138784. July 2, 1971. Paper weight.

Sagolite Industries, J. P. Udyog Bhawan, Plot No. 3, Saki Naka. Bombay-72, (Maharashtra). 139652, March 15, 1972. Torch.

Sam Eruchshaw Bengali. Kanak Vihar, 511 Adenwala Road, Matunga, Bombay-19, State of Maharashtra, India. 138817, July 17, 1971. A writing pad-cum-stand for a pen or pencil or the like., 139941, June 3, 1972. An ash tray.

Sartaj Ahmed, Wahidul Hasan, Mohammed Waris Zaheerul Hasan, Partners of Sartaj Book House, 42/135 Meston Road, Kanpur, U.P. 139298, December 15, 1971. Soles for footwear.

Scientific Clock Mfg. Co., The, P.O. Box No. 12. Station Road, Morvi Gujarat. India. 129574, February 23, 1972. Clocks.

Sham Sundra, B-96. Greater Kailash. New Delhi-48. India. 138894, August 11, 1971. Support member for venetain blinds.

Shantikumar Pratapsinh Merchant, Raghoji Building, "B" Block, Raghoji Road, Cowalia Tank, Bombay-26, Maharashtra, India. 139889, May 12, 1972. A door mat.

Shavax Khurshedji Karanjia, 3, Duaij Court, First Floor, Colaba, Bombay-5, Maharashtra State, India, 139804, April 24, 1972. A toothbrush handle.

S. Hille & Company Limited, a British Company. Hille House, 132, St. Albans Road, Watford, Hertfordshire England. 139110, April 29, 1971 (U.K.). A Chair.

Shree Krishna Plastic Industries, Blacksmith Road, Daman, Union Territory of Goa, Daman and Diu, India. 138926, August 24, 1971. A plastic container. 138942, September 1, 1971. Coffee Mug. 139198, November 22, 1971. Mug. 139234, November 25, 1972. A plastic tumbler.

Shroff Plastics, 27, Kala Bhavan, 3, Mathew Road, Bombay (Maharashtra). 139037, September 21, 1971. Mirror. 139038 to 139040, September 21, 1971. Container.

Shushilaben, Smt. Daughter of Shankerlal Upadhyay and Hargovindbhai Ambalal Patel, 1356, Jalkukadi's Pole, Raipur, Ahmedabad-1, (Gujarat State), India. 139565, February 17, 1972. Containers with caps.

Simac Group (India) Private Limited, 5/7, Sidhpura Industrial Estate, Swami Vivekananda Road, Goregaon (West), Bombay-62 NB, State of Maharashtra, India. 139578, February 25, 1972. A container. 139579, February 25, 1972. Kitchen rack with containers. 139595, March 3, 1972. 'A plastic tray.

Sri Venkateswara Industries, No. 56, Tiruvothiyur High Road, Madras-21. 139717, April 1, 1972. Mascots for vehicles-cum-paper weight.

Star Textiles Ltd., N-44, Panch Shila Colony. New Delhi-17; India. 138930, August 25, 1971. Rack for plates and cutlery. 138931, August 25, 1971. Toilet seat attachment.

Subodh Chrome Plast. 371, Raviwar Peth. Poona-2. Maharashtra (India). 139738. April 7, 1972. Taps.

Sundeep Bulb Manufacturing Co.. Patel Motor Market, Kashmere Gate. Delhi. 139510. February 8, 1972. Bulb electrodes.

Sunshail Enterprises. 36B Griraj Industrial Estate. Mahakali Caves Road. Chakala. Andheri (East). Bombay-59 (Maharashtra). 140280, September 29, 1972. Container-cum-toy.

Supreme Industries Limited, The. 633, Old Laxmi Mill Compound, Wadala, Bombay-31, Maharashtra State. 139710. March 30, 1972. Bowl/container.

Surinder Kumar Bajaj. 5661. Nabi Karim. New Delhi. 138729 and 138730 May 31, 1971 Table call bell.

Swadesi Type Foundry, 51, Guruvappa Chetty Street, Chindadripet, Madras-2. 139232 and 129233, November 25, 1971. Tamil printing types.

Swan Handicrafts and Industrial Project, 65-66 Gandhi Bazar, Amritsar (India). 140147, August 14, 1972. A needle compact (Plastic container).

Swaroop Fakir Shah, Room No. 10, Building No. 3, Karimabad, Imamwad Road, Bombay-9, Maharashtra. 139559, February 16, 1972. Container. 139560, February 16, 1972. Ball point pen.

Swastik Rubber Products Limited, Swastik House, Kirkee, Poona-3, Maharashtra State, India. 139200 to 139205, 139207 and 139208, November 22, 1971. Sole for footwear.

Swaroop Fakir Shah, Room No. 10, Building No. 3, Karimabad, Imamwad Road, Bombay-9. 139560, February 16, 1972. Ball point pen.

Tehmuras Bajonji Buhariwala, S-4, Cusrow Baug, Fort, Bombay-1, State of Maharashtra, India. 139266, December 4, 1971. A collapsible hand bag-cum-cover for table top, jug or like vessel.

Things, 9A, Ash Lane, Fort, Bombay-1, State of Maharashtra, India. 139436, January 13, 1972. A calendar. 139681 and 139882, May 10, 1972. A book mark-cum-paper clip.

Tobu Enterprises Pvt. Ltd., 8/29, Industrial Area, Kirti Nagar, New Delhi-15, (India). 139909, May 20, 1972. The basket.

Tolbro International, 4, Wilson Road, Ballard Estate, Bombay-1 (Maharashtra). 139680, March 27, 1972, P. V. C. Shampoo bottle.

Trippakkal Sekharan Ananth Ghosh, 11/166, Sardar Nagar No. 4, Sionkoliwada, Bombay-22, Maharashtra State, India. 138923, August 23, 1971. Electric paper folding machine.

Union Carbide India Limited, 1, Middleton Street, Calcutta-16, West Bengal, India. 138764, June 23, 1971. Flashlight. 139089 and 139090, October 16, 1971. Reflectors. 139125 and 139131, November 3, 1971. Liquid dispenser. 139132, November 3, 1971. Ball point pen-cum-multiplicator. 139352 and 139354, December 24, 1971. Flashlight. 139361, December 28, 1971, Hand lantern. 139472, January 29, 1972. Flashlight.

Uramil Traders, Kuber Kunj, Karani Lane, Ghatkopar, Bombay-86 AS, Maharashtra, India. 138954, September 2, 1971. Choke remover. 139439, January 15, 1972. Sanitary brush.

Usha Puri, C/o G. C. Khanna, Zaver Mahal, 1st Floor, A-4, 66-Marine Drive, Bombay-20 (Maharashtra), 139447, January 19, 1972. Containers. 139663, March 21, 1972. Containers.

Vasa Interchem Private Limited, 302 Neelam, 108-Worli Sea Face Road, Worli, City of Bombay, State of Maharashtra, India. 140150, August 14. 1972. Bottles.

V. Balakrishnan, No. I. V. B. New Lane, Kottur, Adyar, Madras-25. 139599, March 3, 1972. A Transistor.

Veena Electric Industries, Rusi Mehta Industrial Building, 2nd Floor, Jairajbhai Lane, Fores Road, Bombay-8, Maharashtra State. 138914, August 21, 1971. Lamp. 138919 August 23, 1971, Lamp.

Veeson Industries, Mahalaxmi Industrial Estate, 2nd Floor, Unit No. 12, Off Ferguson Road, (Behind Nerolac Paint Factory), Lower Parel, Bombay-400013, Maharashtra. 140189, August 28, 1972. Squeezer.

Vijay Kumar Berry, Resident, 95/96, New Rajinder Nagar, Double Storey, New Delhi. 139071, October 4, 1971. Mirror.

Vishwanath Sawalka, 90, Muktaram Babu Street, Calcutta-7, West Bengal, India. 139045, September 22, 1971. Painting device.

Wearwell Footwear, A/47 Kirti Nagar, New Delhi. 139401, January 3, 1972. The sole of footwear.

Zaffar Hussain, D-50 Seelampur, Nai Basti, Delhi-31, 139162, November 16, 1971 Rod for baby net. 139159, November 15, 1971. Rod for baby net.

Zodiac Plastic & Allied Works, A-1, Arjun Nagar (Near Green Park), New Delhi-16. 138951, September 1, 1971. Wool holder.

Class 4—Articles composed wholly of glass, earthenware, or porcelain, clay (burnt or baked), or cement or in which such materials predominate.

A. A. Atarwala & Co., 295, Janjikar Street, Opp. Jumma Masjid, Bombay-2, Maharashtra (India). 139810, April 27, 1972. Bottles.

Anthony Mathias Dias, 650, Girgaum Road, 1st Floor, Sharaff Manzil, Dhobi Talao, Bombay-2, State of Maharashtra. 139287, December 13, 1971. Fuel filters.

Awres Enterprises, P-334, Parnasree Pally, Behala, Calcutta-60, West Bengal, India. 139786, April 10, 1972. Decorative lamp bulb.

Covent Cosmetics (Private) Limited, 1/207-D, Vasudeva Sadan, Dr. Ambedkar Road, Bombay-19, in the State of Maharashtra. 139633, March 10, 1972. Bottle.

Dabur (Dr. S. K. Burman) Private Limited, 20/5, Mathura Road, Faridabad, (Haryana), India. 139059 and 139060. October 1, 1971. A bottle.

Fruit & Vegetable Co-operative, Processing Society Ltd., The. Kushalnagar, Coorg District, Mysore State. 139435. January 13, 1972. Bottle.

Geoffrey Manners & Company Limited, Magnet House, Narottam Morarjee Marg, Ballard Estate, Bombay-1, State of Maharashtra, India. 138686 and 138687, May 15, 1971. Bottles. 138731, June 2, 1971. Bottles.

Hindustan General Electrical Corporation Limited, Thapar House, 25, Brabourne Road, Calcutta-1, West Bengal, India. 138963, September 2, 1971. Fuse bridge base. 138964. September 2, 1971. Fuse bridge cover. 138965. September 2, 1971. Fuse bridge.

J. K. Helene Curtis Limited, J. K. Building, Dougall Road, Ballard Estate, Bombay-1, State of Maharashtra, India. 139594, March 1, 1972. A bottle.

Kemp & Company Limited, 88C, Old Prabhadevi Road, City of Bombay, State of Maharashtra, India. 140024, July 7, 1972. Bottles.

Lombards Private Limited, Rahimtoola House, Homji Street, Bombay-1, Maharashtra State. 139116, October 28, 1971. Bottles with cap. 139128, November 3, 1971. Bottles.

M. G. Shahani & Co., (Delhi) Pvt. Ltd., 34-B, Connaught Place, New Delhi-1, (India). 139136, November 5. 1971. Container.

Modern Industries, 36, Sainath Industrial Estate. No. 2. off Aarey Road, Goregaon (East), Bombay-63, (Maharashtra). 140100, and 140101, August 3, 1972. Bottle.

Mohan Meakin Breweries Limited, Solan Brewery P.O., Simla Hills, Himchal Pradesh, India. 139114, October 28. 1971. Bottle with cap.

Naba Kumar Routh, 78, Netaji Subhas Road, Calcutta-7, West Bengal, India. 139557, February 15, 1972. Griding Slab (Sheel).

Paramount Products, Block No. A/28, Second Floor, Shri Ram Industrial Estate, G. D. Ambedkar Road, Bombay-31, Maharashtra (India). 139468, January 28, 1972. Containers.

Philips India Limited, Shivsagar Estate, Block "A", Dr. Annie Besant Road, Worli, Bombay-18 (WB), Maharashtra State, India. 139926, May 27, 1972. A decorative incandescent light fitting.

Polychem Limited, 7, Jamshedji Tata Road, Churchgate Reclamation. Bombay-20 BR, Maharashtra. 139163 and 139164, November 17, 1971. Bottle.

Pure Drinks (New Delhi) Private Limited, S. Mohan Singh Building, Connaught Lane, New Delhi-1, India. 139601 March 4, 1972. A bottle. 139716, March 30. 1972. A bottle.

Rajaram Jairam Neogi, Anna Purna Niwas, Dattawadi. Mapsa. Goa. 139357, December 27, 1971. Lighting devices (Dipastamb).

Raj Hans Products. 42/45, Sewa Choudhury Galli, Bisesarganj, Varanasi, Uttar Pradesh, India. 139539, February 11, 1972. Glass bottles.

Sema Products. 212 Bajson Industrial Estate, 40-Chakala Road, Andheri (East), Bombay-69, Maharashtra, India. 139683, March 27, 1972. Decorative electric bulbs.

Shepunj Beauty Laboratories. Bajsons Industrial Estate, Chakala Road, Andheri, Bombay-69, (Maharashtra). 139094, October 19, 1971. Bottle with cap.

Somany-Pilkington's Limited. P.O. Kassar, Distt. Rohtak (Haryana). India. 140199 to 140201, August 31, 1972. Tile.

Sri Venkateswara Industries, No. 56. Tiruvothiyur High Road, Madras-21. 139719. April 1. 1972. Mascots for vehicles cum paper weight.

Swastik Oil Mills. Saltpan Road, Wadala. Bombay-31, a division of Karamchand Premchand Private Limited. 138971, September 3, 1971. Bottle.

Vasa Interchem Private Limited. 302. Neelam. 108 Worli Sea Face Road, Worli, City of Bombay, State of Maharashtra, India. 140151, August 14, 1972. Bottles.

V. Balakrishnan, No. 1, V. B. New Lane, Kottur, Adyar, Madras-25. 139600, March 3, 1972. A Transistor.

Vijay Industries, 27, Avantikabai Gokhale Road, Bombay-4. (Maharashtra). 139137. November 5, 1971. Bulb.

Vijay Kumar Berry, 95/96, New Rajinder Nagar, Double Storey, New Delhi. 139103, October 22, 1971. Mirror.

Vinedale Distilleries Private Limited, "Nirmal" 3rd Floor, 241, Backbay Reclamation, Nariman Point, Bombay-1, State of Maharashtra, India. 138990 and 138991, September 9, 1971. Bottles.

Class 5.—Articles composed wholly of paper, cardboard, mill-board, or straw-board (except articles included in Class 2 and paper hanging), or in which such materials predominate.

Aspro Nicholas Limited, a British Company 225, Bath Road, Slough, Buckinghamshire, England. 139284, December 10, 1971. A carton.

Bhola Nath Sethi, 2461, Chhotta Rang Mahal, Tilak Bazar, Delhi-6. 139112, October 28, 1971. Powder container.

Calcutta Chemical Co. Ltd., The, 35, Panditia Road, Calcutta-29, West Bengal. 139289, December 13, 1971. Carton.

Emhart Corporation, a Corporation of U.S.A. Bloomfield, state of Connecticut whose mailing address is 950 Cottage Grove Road, Bloomfield, Connecticut, U.S.A. 139086, October 11, 1971. A carton partition assembly.

Future Fati Construction, 1, Jadu Pandit Road, Calcutta-16, West Bengal. 139542, February 14, 1972. Cartons.

Ganga Saran & Sons Private Ltd., 1, Gibson Lane, Calcutta-1, State of West Bengal, India. 139211, November 22, 1971. A carton.

Good House-Keepint Company (Private) Ltd., "Liberty Building", 41, Marine Lines, Bombay-20, (Maharashtra State). 139226, November 24, 1971. A container.

Maloy Kumar Bannerjee, 19A, Chowringhee Road, Calcutta-13. West Bengal, India. 139602, March 4, 1972. A carton.

Mikhail Ivanovich Kievtsov, a citizen of the U.S.S.R. of Kotolinicheskaya naberezhnaya, 1/15. Korpur B. kv. 83, Moscow, U.S.S.R. 139034, September 20, 1971. Chess board.

Paramount Products. Block No. A/28. 2nd Floor. Shri Ram Industrial Estate, G. D. Ambedkar Road, Bombay-31, Maharashtra, (India). 138871, August 2, 1971. Cartons.

Rajaram Jairam Neogi, Anna Purna Niwas, Dattawadi, Mapsa, Goa. 139356, December 27, 1971. Lighting Devices (Dipastamb).

Shushilaben, (Smt.), daughter of Sankerlal Upadhyay and Shri Hargovindhbhai Ambalal Patel, 1356, Jalkukadi's Pole, Raipur, Ahmedabad-1, (Gujarat State). 139566 and 139567, February 17, 1972. Carton blank.

Class 6.—Article composed wholly of leather or in which leather predominates, not included in other classes.

Tehmuras Bajoni Buhariwala, S-4, Curosw Baug, Fort Bombay-1, State of Maharashtra, India. 139265, December 4, 1971. A collapsible hand bag-cum-cover for table top, jug or like vessel.

Class 7.—Paper hangings.

Nil.

Class 8.—Carpets, rugs and floor coverings in all materials.

Premier Rubber & Cable Industries, Savoy Chambers, 5, Wallace Street, Fort, Bombay-1, State of Maharashtra, India. 139318 and 139320, December 20, 1971. Floor covering.

Class 9.—Lace

Sovrin Knit Works, M/s., 20/4, Mathura Road, Faridabad (Haryana). 139903, May 15, 1972. Textile goods.

Sovrin Knit Works, 20/4, Mathura Road, Faridabad (Haryana). 139509, February 8, 1972. Textile goods. 139723, 139724 and 139725, April 4, 1972. Textile goods. 139863, May 9, 1972. Textile goods.

Class 10.—Boots, shoes and the like footwear.

Abrar Husain, 88/305, Chaman Ganj, Kanpur (U.P.). 139418, January 10, 1972. Shoe.

Bata Shoe Company Private Limited, 30, Shakespeare Sarani in the town of Calcutta, West Bengal. 138966 to 138968, September 3, 1971. Footwear. 139051 and 139052, September 25, 1971. Footwear. 139150 to 139152, November 11, 1971. Footwear. 139669, March 24, 1972. Footwear. 139708, March 30, 1972. Footwear.. 139793 and 139794, April 21, 1972. Footwear.

B. B. Talapatra & Company, P-11, New Howrah Bridge, Approach Road, Calcutta-1, West Bengal. 139283, December 8, 1971. Shoes and like footwear.

Bhagwan Naraindas Chotirmall, "Ivanhoe", General Bhonsale Marg, Bombay-1, State of Maharashtra, India. 140068, July 20, 1972. A footwear.

Blow Plast Private Limited, Lal Bahadur Shastri Marg, Bhandup, City of Bombay, State of Maharashtra, India. 138781, June 29, 1971. Footwear.

Cello Plastic Industrial Works, Churiwadi, Goregaon East, Bombay-63. Maharashtra. 139088, October 15, 1971. Sandals.

Dunlop Holdings Limited, a British Company Dunlop House, Ryder Street, St. James London, S.W. 1., England. 138920 and 138921, February 23, 1971. (U.K.). Footwear.

Imperial Shoe Co., 404, Old Post Office Street, Sadar Bazar, Delhi-6. 139938, June 2, 1972. Chappal.

Juharmal Khetasidas, Shriniwas Agarwal and Bajranglal Juharmal. Juharmal Shriniwas, Hind Building, 3A, Bhuteshwr. Bombay-2. 139976, June 17, 1972. A footwear.

Mahan Enterprises, 1, Industrial Area, Tilak Nagar, New Delhi-18, India. 138970. September 3, 1971. Footwears.

Swastik Rubber Products Limited. Swastik House Kirkee, Poona-3, Maharashtra State, India. 139209 and 139210, November 22, 1971. Foot-wear.

Universal Footwear Co., 93, Queens Road, Bombay No. 1, Maharashtra State. 139083, October 8, 1971. Footwear.

Wearwell Footwear, A/47, Kirti Nagar, New Delhi. 139399, January 3, 1972. The shoes.

Clause 11.—Millinery and wearing apparel (except articles included in class 10).

Diljit Saini,14, Hamam Street, 2nd Floor, Rajabahadur Mansion, Fort, Bombay-1, State of Maharashtra, India. 139157, November 12, 1971. A neck tie. 139498, February 5, 1972. A leather neck-tie. 139671, March 24, 1972. A neck-tie.

Rolex Hosiery Private Limited, Delisle Road, Bombay-13, (Maharashtra). 139711, March 30, 1972.

Shah Tailors, Mulund Thana District, Maharashtra, India. 139015 to 139022, September 14, 1971. Collar lining.

Shah Tailors, Mahatma Gandhi Road, Mulund, Greater Bombay, Bombay-80, Maharashtra, India. 139014, September 14, 1971. A trousers.

Shell Knitting Company, No. 2, Kongunagar Main Road, Tirupur-2, Tamil Nadu, 139145 and 139146, November 8, 1971. An underwear.

T. T. Investments & Trades Private Ltd., 3, Cathedral Road, Madras-6, India, 139049 and 139050. September 24, 1971. Underwear.

Class 12.—Goods not included in other calsses.

Crown Manufacturing House, The 19-20, Model Basti, Rani Jhansi Road, New Delhi-5. 139030 to 139032, September 20, 1971. Candle. 139055, September 25, 1971. Wax Candle.

Michel Postel, Darshan Appartment, Mount Pleasant Road, Bombay-6, (Maharashtra). 139405, January 5, 1972. Lollipop.

Moneta Baking Corporation, 66, Haines Road, Worli, Bombay-18, (Maharashtra). 139155, November 11, 1971. Canape (Wafer container). 139496, February 2, 1972. Ice Cream container made of water. 139712, March 30, 1972. Ice cream cone made of water. 139713, March 30, 1972. Canape.

Rajendar Singh and Kartar Singh, Asoka Biscuit Works, 3-1-324, Azamjahi Road, Kachiguda, Hyderabad-27 (A.P.). 139958, June 9, 1972. Biscuits.

Sefalica Saha Laxmi Narayan Bakery and Biscuit Confectionery 20A. Sreepally, Belgharia, Calcutta-56, West Bengal. 139772, April 5, 1972. Biscuit.

Zaffar Hussain. D-50, Seelampur, Nai Basti. Delhi-31. 139105, October 25, 1971. Baby Cradle.

Class 13.—Printed or woven designs or textile goods other than checks or stripes.

Cotexpo International, Textile Division, 19/21, Dr. Deshmukh Lane, V. P. Road, Bombay-4. 139921, May 26, 1972.

Deepak Textile Mills, 154, A to Z Industrial Estate, Ferguson Road, Worli, Bombay-13. (Maharashtra). 139122, November 1, 1971.

Khatau Makanji Spg. & Wvg. Co., Ltd., The Laxmi Building 6, Ballard Road, Bombay-1, 139617 to 139628, March 7, 1972.

Khatau Makanji Spg. & Wvg., Co., Ltd., The, Laxmi Building, 6, Ballard Road, Bombay-1. 139170 to 139179, November 19, 1971. 139246 to 139251, November 29, 1971. 139269 to 139279, December 7, 1971. 139303 to 139310, December 17, 1971. 139363 to 139378, December 29, 1971. 139420 to 139432, January 12, 1972. 139449 to 139455, January 19, 1972. 139479 to 139494, February 1, 1972. 139521 to 139533, February 10, 1972. 139684 to 139706, March 29, 1972. 139739 and 139741 to 139754, April 10, 1972. 139838, April 27, 1972.

Shree Ram Mills Ltd., Fergusson Road, Lower Parel, Bombay-13, Maharashtra. 139180 and 139181, November 19, 1971. 139312 to 139314, December 18, 1971. 139403, January 4 1972.,139545 to 139549, February 14, 1972. 139603 to 139611, March 4, 1972. 139673, March 25, 1972. 139721, April 3, 1972. 139784, April 18, 1972. 139797 to 139801, April 22, 1972. 139856 to 139862, May 6, 1972. 139913 to 139915, May 22, 1972.

Shree Sajjan Mills Limited, 28, Apollo Street, Fort, Bombay-1, India (Bombay Office) and (Registered Office) at Ratlam, Madhya Pradesh, India, 138888 to 138891, August 10, 1971.

Vijay Dyeing Screen Printing Works, 18-B, Dada Nagar, Industrial Estate, Kanpur (U.P.). 138808 to 138812, July 15, 1971. 138908, August 10, 1971. 138912, August 21, 1971.

Class 14.—Printed or woven designs on textile goods being checks or stripes.

Nil.

PART VI

List of Special proceedings (Designs) during 1973.

A.—Extension of copyright in Designs under Sections 47(2) and 47(3) of the Designs Act, 1911.

Design No.	Class No.	Date upto which the copyright has been extended.
1	2	3
114652	4	21st July, 1977.
115064	3	25th August, 1977.
115097 and 115098	3	28th August, 1977.
115115 and 115116	3	31st August, 1977.
115328 and 115329	4	17th September, 1977.
115442 nd 115443	13	24th September, 1977.
115881, 115883 and 115884	1	6th January, 1977.
116434	4	24th December, 1977.
116521	3	26th September, 1977.
1165579	1	9th January, 1978.
116606 and 116607	3	14th January, 1978.
116841	3	29th January, 1978.
116874	3	24th August, 1977.
117005 and 117006	4	11th February, 1978.
117017	1	12th February, 1978.
117056	1	13th February, 1978.
117057	1	13th February, 1978.
117274 to 117277	8	28th February, 1978.
117284	1	23rd January, 1978.
117321	1	6th March, 1978.
117420	1	15th March, 1978.
117525	1	19th March, 1978.
117708 to 117712	1	8th April, 1978.
117939 and 117940	1	29th April, 1978.
118295	3	1st June, 1978.
118360	4	10th June, 1978.
118371	1	12th June, 1978.
118372	3	13th June, 1978.
118444	1	19th December, 1977.
118463 and 118464	1	20th June, 1978.
118578	3	8th July, 1978.
118600 and 118601	1	10th July, 1978.
118841	3	4th February, 1978.
118843	3	24th April, 1978.
118994	5	12th August, 1978.
118996	5	12th August, 1978.
119619	3	23rd April, 1978.
11041 to 110050	1	2nd November, 1978.
120051 and 120052	3	2nd November, 1978.
120053	3	2nd November, 1978.
120054	1	2nd November, 1978.
120055	3	2nd November, 1978.
120063	3	2nd November, 1978.
120176	1	13th November, 1978.
120177	3	13th November, 1978.
120178	1	13th Novembr, 1978.
120179	3	13th November, 1978.
120308	1	26th November, 1978.
120434	1	6th December, 1978.
120490	3	20th June, 1978.
125002	1	25th February, 1980.
125125	1	22nd March, 1980.
128540	1	23rd May, 1981.
130531	1	6th March, 1977.
130563	3	21st March, 1982.
130675	3	7th April, 1982.
130741	8	25th April, 1977.
130987	5	7th June, 1977.
131083	1	16th June, 1982.
131084 and 131085	3	16th June, 1977.
131208	1	23rd June, 1977.
131218 to 131220	10	26th June, 1977.
131238	1	27th June, 1982.
131286	4	4th July, 1977.
131456	1	17th July, 1977.
131469	3	17th July, 1977.
131475 and 131476	1	21st July, 1977.
131491	4	27th July, 1977.
131667	1	22nd August, 1977.
131677	12	23rd August, 1977.
131732	1	8th September, 1977.
131734	1	8th September, 1977.
131826	1	26th September, 1977.
131884	3	29th September, 1977.
131971 to 131977	13	16th October, 1977.
132162	3	31st October, 1977.
132373	3	6th December, 1977.
132163	1	31st October, 1977.

1	2	3
132176 and 132177	4	7th November, 1977.
132227 and 132228	1	21st November, 1977.
132242	3	28th November, 1977.
132314	3	2nd December, 1977.
132372	10	6th December, 1977.
132389 to 132391	3	11th December, 1977.
132480 to 132484	3	14th December, 1977.
132485 to 132489	10	14th December, 1977.
132581 and 132582	1	30th December, 1977.
132583	4	30th December, 1977.
132700	1	11th January, 1978.
132703	1	15th January, 1978.
132819	3	19th January, 1978.
132946	3	29th January, 1978.
133003 and 133004	4	2nd February, 1978.
133027 to 133029	3	6th February, 1983.
133043	1	12th February, 1978.
133052	10	12th February, 1978.
133053	3	12th February, 1978.
133059	3	13th February, 1978.
133105	3	15th February, 1978.
133129 and 133130	1	15th February, 1978.
133136 and 133137	3	16th February, 1978.
133170	4	19th February, 1978.
133240	1	23rd February, 1978.
133267	3	1st March, 1978.
133331	1	11th March, 1978.
133383	1	12th March, 1978.
133386	1	12th March, 1978.
133417	4	19th March, 1978.
133423	3	19th March, 1978.
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133430	3	21st March, 1978.
133442 and 133443	1	23rd March, 1978.
133466	3	26th March, 1978.
133472 to 133474	1	26th March, 1978.
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133520	1	4th April, 1978.
133548 and 133549	3	8th April, 1978.
133606	3	11th April, 1978.
133609	3	15th April, 1978.
133615	3	17th April, 1978.
133675	1	29th April, 1978.
133676	3	29th April, 1978.
133693	3	30th April, 1978.
133695 and 133696	3	30th April, 1978.
133749 to 133751	1	6th May, 1978.
133774 to 133776	3	13th May, 1978.
133803 and 133804	1	15th May, 1978.
133841	1	22nd May, 1978.
133845 to 133850	11	22nd May, 1978.
133870	3	25th May, 1978.
133872	1	27th May 1978.

1	2	3
133877	3	28th May, 1978.
133901	1	3rd June, 1978.
133906 to 133924	13	4th June, 1978.
133981 and 133982	3	10th June, 1978.
133983 to 133985	4	10th June, 1978.
134081	1	19th June, 1978.
134218 to 134220	10	11th July, 1978
134221 to 134223	3	11th July, 1978.
134274	1	20th July, 1978.
134279 to 134281	10	22nd July, 1983.
134314	4	31st July, 1978.
134343 and 134344	3	5th August, 1978.
134357	1	8th August, 1978.
134359	3	8th August, 1978.
134382	1	14th August, 1978.
134383	11	1st March, 1978.
134395	12	21st August, 1978.
134529	1	6th September, 1978.
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134606	1	4th October, 1983.
134612 to 134617	4	8th October, 1978.
134679	3	22nd October, 1978.
134680	3	22nd October, 1978.
134752	1	26th October, 1978.
134770	3	30th October, 1978.
134771	4	30th October, 1978.
134773	3	31st October, 1983.
134792	1	4th November, 1983.
134817	3	16th November, 1978.
134858	1	19th November, 1978.
134864	3	25th November, 1978.
134891	3	3rd December, 1978.
134949	1	17th December, 1983.
134950	4	17th December, 1978.
134979 and 134980	3	18th December, 1978.
135010	3	26th December, 1978.
135014	1	28th December, 1983.
135289	1	11th February, 1979.
135357	1	27th February, 1979.
135624	3	14th April, 1979.
135625 and 135626	11	14th April, 1979.
136317 to 136319	1	16th August, 1979.
136539 to 136542	3	26th September, 1979.
136585	3	9th October, 1979.
137674	1	8th July, 1985.
138293	3	4th January, 1986.
138363	12	27th January, 1986.
138384	3	5th February, 1976.
138404	12	12th February, 1986.
138969	3	3rd September, 1986.
139049	11	24th September, 1986.
140243	3	14th September, 1987.

B.—Registration of Assignments, Licences, etc.

Assignments, Licences or other transactions affecting the interest of the original Proprietors have been registered in respect of the designs bearing the following registration numbers. The number of each design is followed by the names of the applicants for registration.

Design No.	Name of the Registered Proprietor
99654	Societe Franco-Hispano-Americaine (Francipam).
113846	Bansi Lal & others.
122926	Hind Razor & Blade Company Private Limited.
131508	Minoo Framroz Mehta.
138929	Minoo Framroz Mehta.
139381 to 139392	Concord Lighting (India) Private Ltd.

C.—Cancellation of Registration of Designs

Design No.	Name of the Registered Proprietor	Results
139613	Brahma Bharati Udyog	Pending
139772	Sefalica Saha	Pending
139795	Murshedali Khan	Pending
139796	Murshedali Khan	Pending
139840	Inder Sain	Pending
139938	Imperial Shoe Co.	Pending
140243	Camlin Private Ltd.	Pending
140264	Dulichand Kheria, Shiv Kumar Kheria, Suresh Kumar Kheria, Umesh Kumar Kheria	Pending
140424	Maxflow Pumps (P) Ltd.	Pending

PART VII

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Abildgaard Laboratories, Inc.	132218
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A. Frieder, Flender & Co.	131374
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Agarwal, M.	133737
Agarwal, M.S.	132807
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A.H. Robins Co., Inc.	133015, 133470, 133626.
Airfix Industries Ltd.	131342, 132069, 133105.
Air, Preheater Co., Inc. The.	130952, 131244, 133232.
Airyan Electricals	131167
Akademia Gorniczo-Hutnicza Im. Stanistawa staszica	130114
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Aktiebolaget Tudor.	130796, 133556, 133890.
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Aktieselskabet Grindstedvaerket	134038
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Cabot Corpn.	130096, 130518, 130831, 131404, 131431, 131648, 132804, 133622, 133640.
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Cambridge Consultants Ltd.	132665
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Cassella Farbwerke Mainkur Aktiengesellschaft	130034, 130575, 130872, 130963, 132953, 133145.
Cassel, T.R.	130854
Caterpillar Tractor Co.	131880
C.A.V. Ltd.	130509, 130624, 131040, 131868, 132460.
Cawood Wharton and Company Ltd.	129885
Cefilac	130650, 130651, 130670, 130671.
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Central Glass Co. Ltd.	131235
Central Machine Tool Institute	130001
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Centre De Recherches De Pont.-A-Mousson	130322
Centron Industrial Alliance Pvt. Ltd.	133252, 133308.
Centro Sperimentals Metallurgico S.p.A.	131327, 131612.
Cesini, A.M.V.N.	131971
Ceskoslovenska Akademie ved of Praha Czechoslovakia	134016
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Chakrabarti, S.N.	130862
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Chakradeo, P. L.	129862, 129863, 129865, 130054, 130055, 132304, 134089.
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Chief Scientist, Research & Development Organisation, Ministry of Defence, The—	131789, 131790, 131861, 131873, 131943, 132102, 132103, 132245, 132246, 132247, 132248, 132249, 132250, 132396, 132397, 132398, 132399, 132400, 132469, 132470, 133804, 134154.
Ching-Pang Ho.	130467
Chinoin Gyogyazer Es-Vegyeszeti Termekek Gyara Rt.	130341, 130384, 130897, 131519, 132348, 132876, 133559.
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